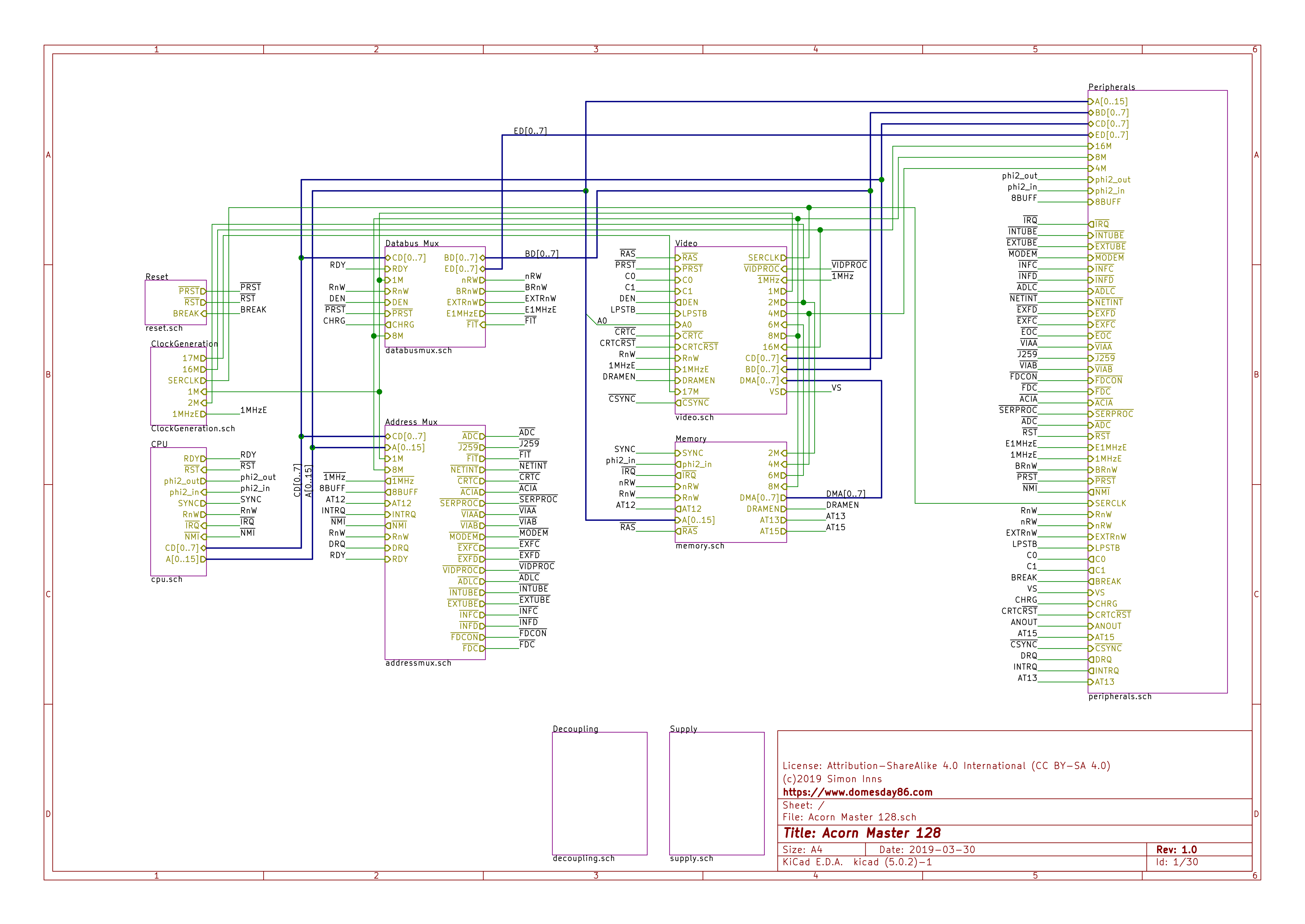
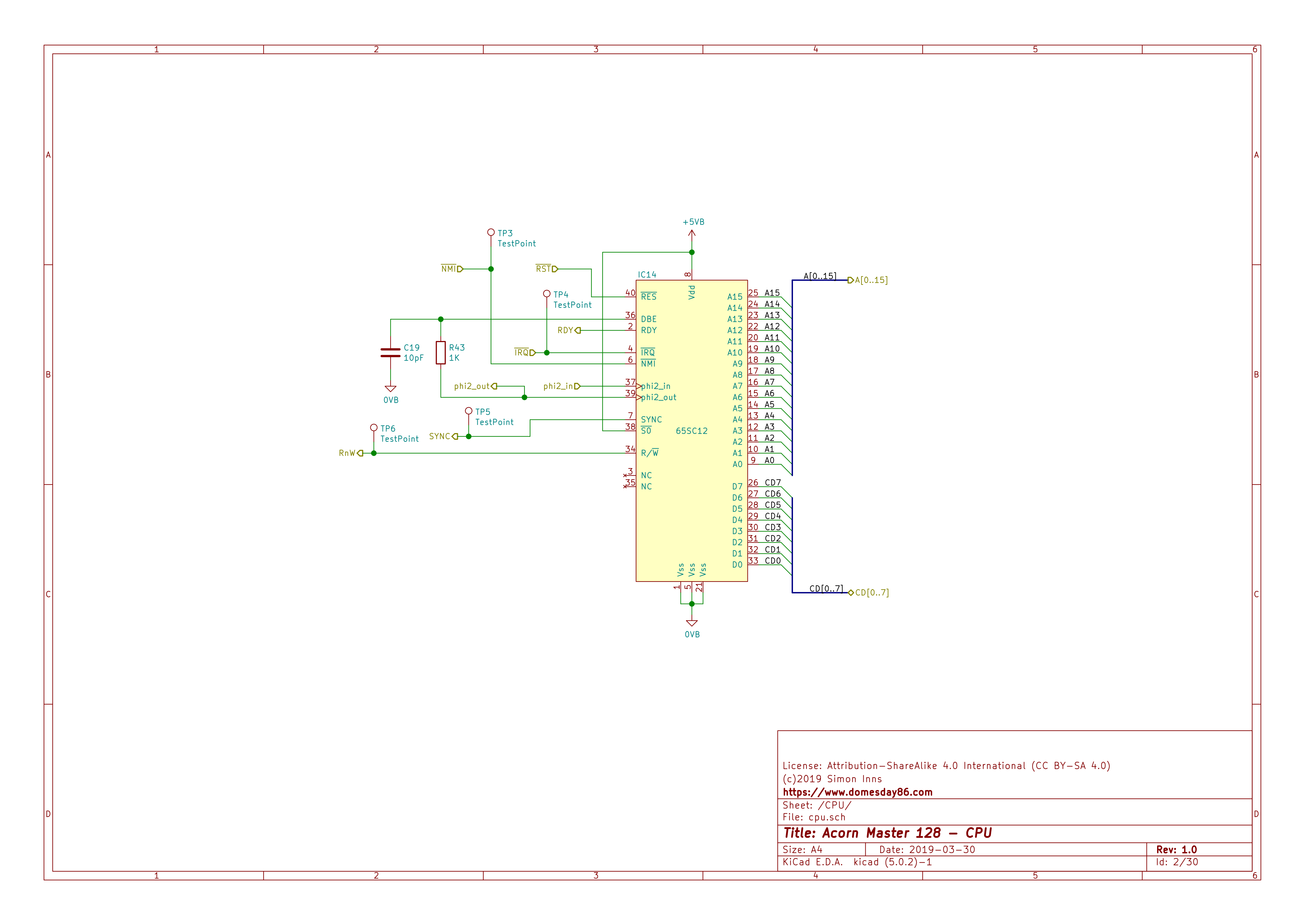
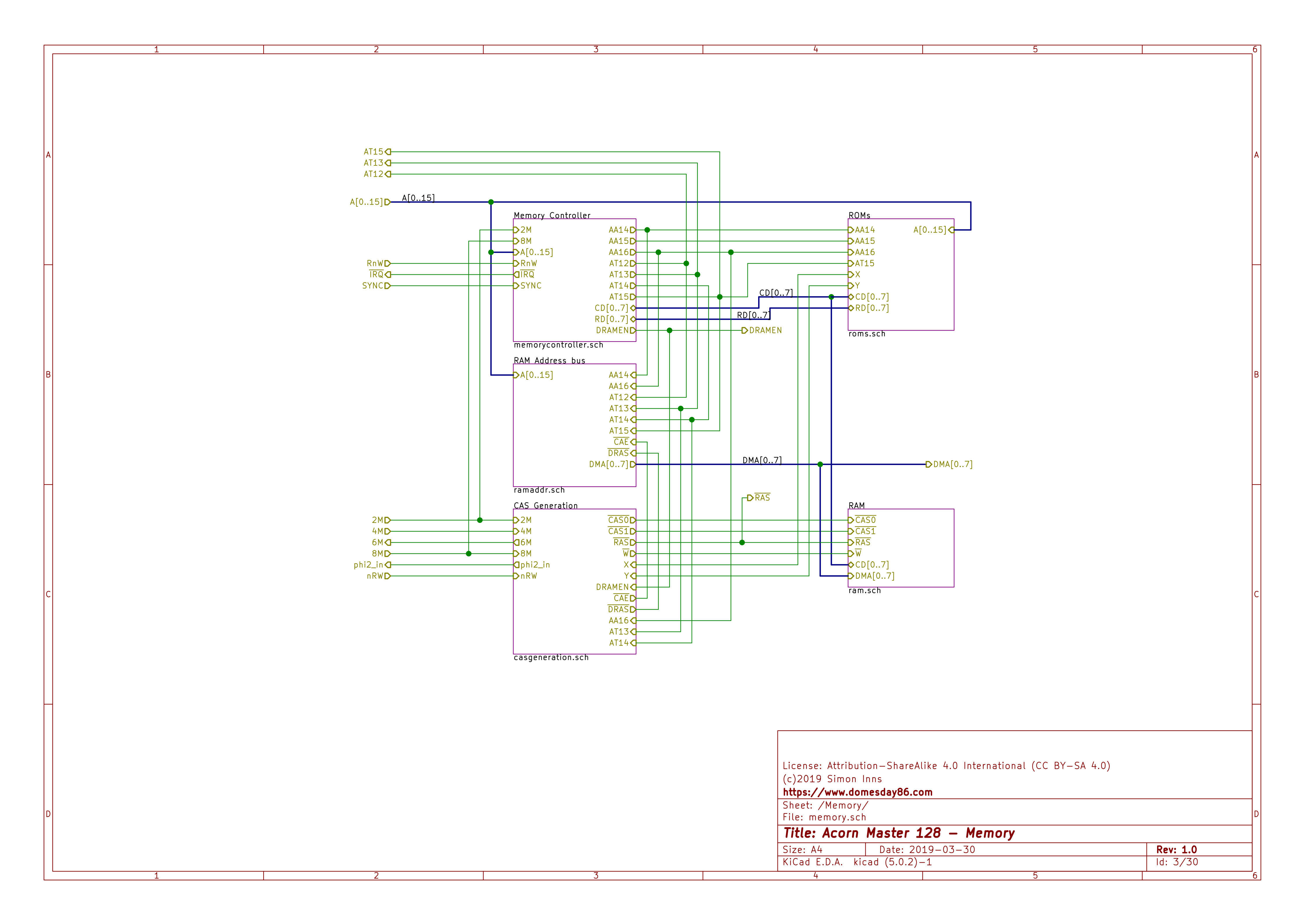
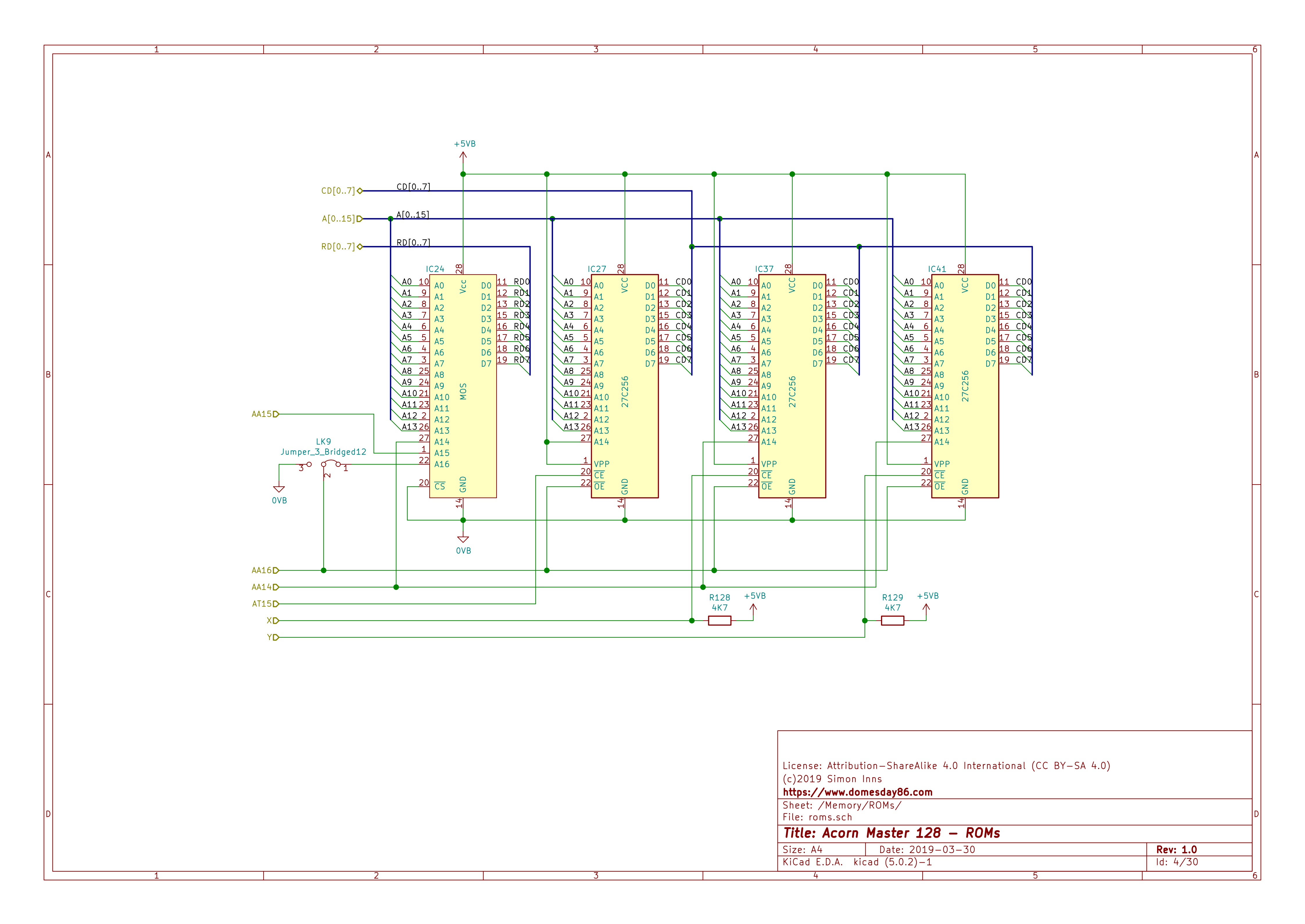


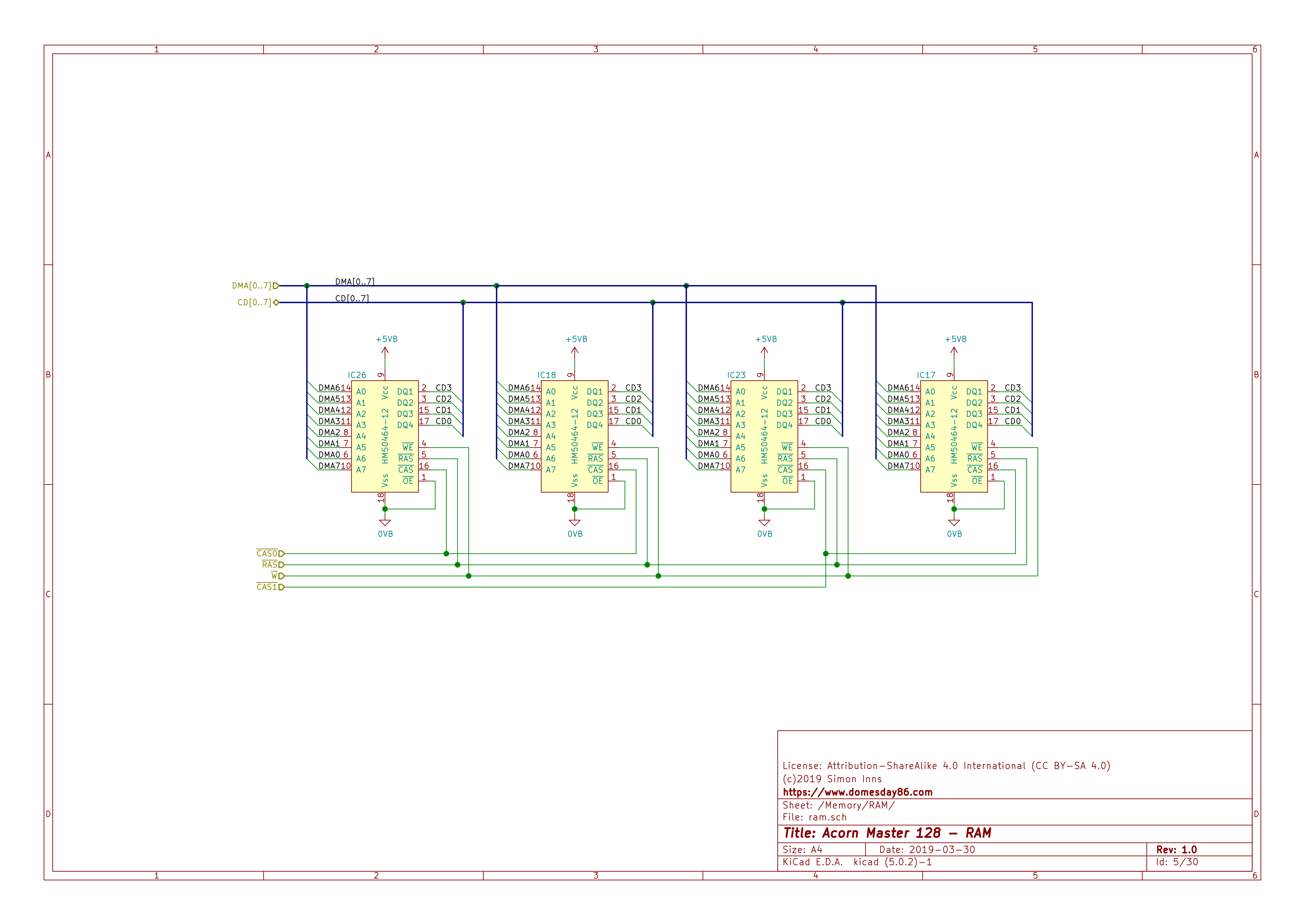
Peripherals
A[0..15]
BD[0..7]
CD[0..7]
ED[0..7]
16M
8M
4M
phi2_out
phi2_in
8BUFF
IRQ
INTUBE
EXTUBE
MODEM
INFC
INFD
ADLC
NETINT
EXFD
EXFC
EOC
VIAA
J259
VIAB
FDCON
FDC
ACIA
SERPROC
ADC
RST
E1MHzE
1MHzE
BRnW
PRST
NMI
SERCLK
RnW
nRW
EXTRnW
LPSTB
C0
C1
BREAK
VS
CHRG
CRTCRST
ANOUT
AT15
CSYNC
DRQ
INTRQ
AT13
peripherals.sch
ED[0..7]
BD[0..7]
Reset
PRST
RST
BREAK
reset.sch
ClockGeneration
17M
16M
SERCLK
1M
2M
1MHzE
ClockGeneration.sch
CPU
RDY
RST
phi2_out
phi2_in
SYNC
RnW
IRQ
NMI
CD[0..7]
A[0..15]
cpu.sch
CD[0..7]
A[0..15]
Databus Mux
CD[0..7]
RDY
1M
RnW
DEN
PRST
CHRG
8M
BD[0..7]
ED[0..7]
nRW
BRnW
EXTRnW
E1MHzE
FIT
databusmux.sch
Address Mux
CD[0..7]
A[0..15]
1M
8M
1MHz
8BUFF
AT12
INTRQ
NMI
RnW
DRQ
RDY
ADC
J259
FIT
NETINT
CRTC
ACIA
SERPROC
VIAA
VIAB
MODEM
EXFC
EXFD
VIDPROC
ADLC
INTUBE
EXTUBE
INFC
INFD
FDCON
FDC
addressmux.sch
Video
RAS
PRST
C0
C1
DEN
LPSTB
A0
CRTC
CRTCRST
RnW
1MHzE
DRAMEN
17M
CSYNC
SERCLK
VIDPROC
1MHz
1M
2M
4M
6M
8M
16M
CD[0..7]
BD[0..7]
DMA[0..7]
VS
video.sch
Memory
SYNC
phi2_in
IRQ
nRW
RnW
AT12
A[0..15]
RAS
2M
4M
6M
8M
DMA[0..7]
DRAMEN
AT13
AT15
memory.sch
Decoupling
decoupling.sch
Supply
supply.sch
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(c)2019 Simon Inns
https://www.domesday86.com
Sheet: /
File: Acorn Master 128.sch
Title: Acorn Master 128
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 1/30

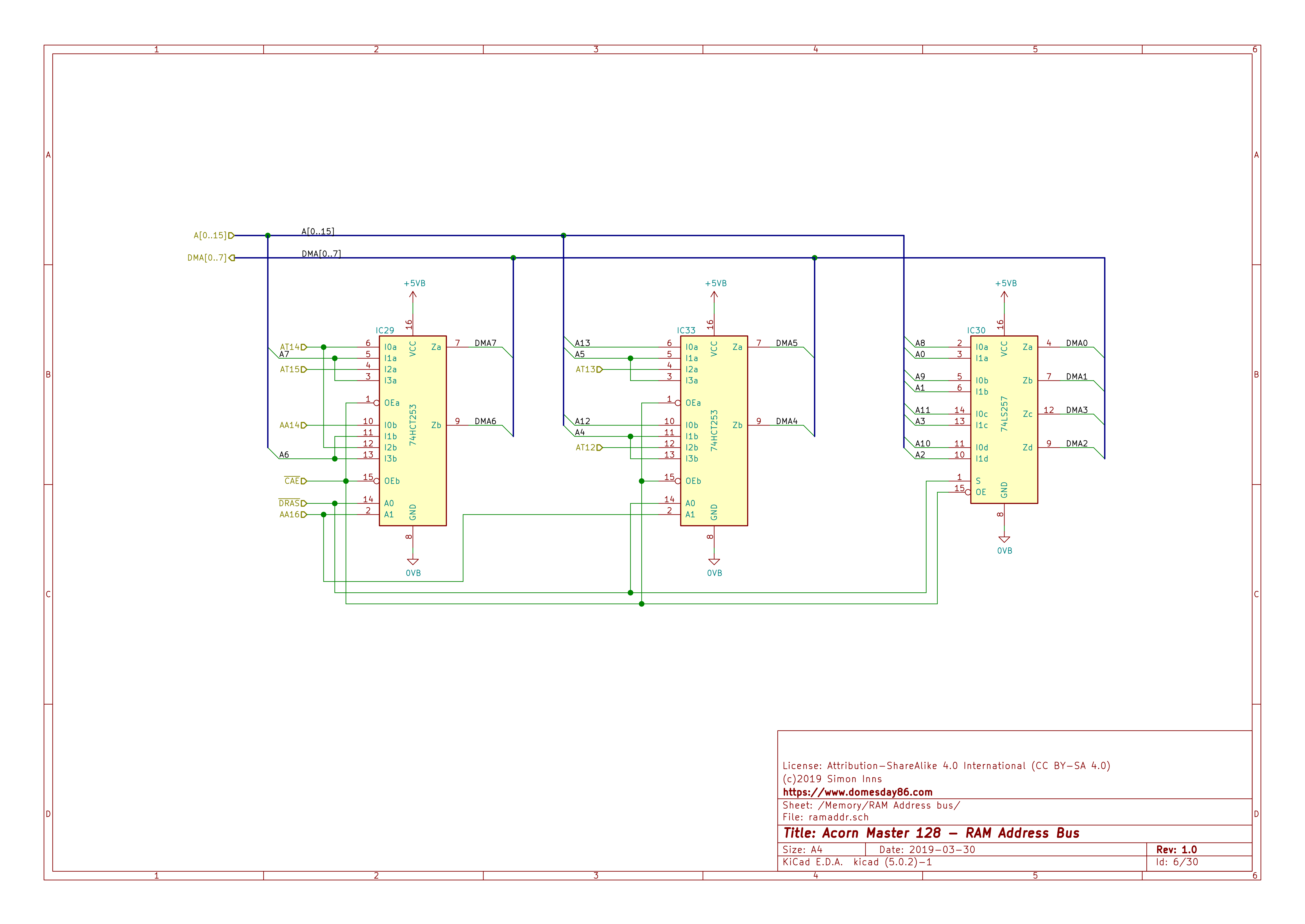


+5VB
TP3
TestPoint
NMI
RST
IC14
TP4
TestPoint
C19
10pF
R43
1K
0VB
RDY
IRQ
phi2_out
phi2_in
TP5
TestPoint
TP6
TestPoint
SYNC
RnW
40 RES
36 DBE
2 RDY
4 IRQ
6 NMI
37 phi2_in
39 phi2_out
7 SYNC
38 SO
34 R/W
3 NC
35 NC
8 Vdd
65SC12
Vss Vss Vss
1 5 21
0VB
A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0
25 24 23 22 20 19 18 17 16 15 14 13 12 11 10 9
A[0..15]
A[0..15]
D7 D6 D5 D4 D3 D2 D1 D0
26 CD7
27 CD6
28 CD5
29 CD4
30 CD3
31 CD2
32 CD1
33 CD0
CD[0..7]
CD[0..7]
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https://www.domesday86.com
Sheet: /CPU/
File: cpu.sch
Title: Acorn Master 128 - CPU
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 2/30


AT15
AT13
AT12
A[0..15]
Memory Controller
2M
8M
A[0..15]
RnW
IRQ
SYNC
AA14
AA15
AA16
AT12
AT13
AT14
AT15
CD[0..7]
RD[0..7]
DRAMEN
memorycontroller.sch
ROMs
A[0..15]
AA14
AA15
AA16
AT15
X
Y
CD[0..7]
RD[0..7]
roms.sch
DRAMEN
RAM Address bus
A[0..15]
AA14
AA16
AT12
AT13
AT14
AT15
CAE
DRAS
DMA[0..7]
ramaddr.sch
DMA[0..7]
RAS
CAS Generation
2M
4M
6M
8M
phi2_in
nRW
CAS0
CAS1
RAS
W
X
Y
DRAMEN
CAE
DRAS
AA16
AT13
AT14
casgeneration.sch
RAM
CAS0
CAS1
RAS
W
CD[0..7]
DMA[0..7]
ram.sch
RnW
IRQ
SYNC
2M
4M
6M
8M
phi2_in
nRW
License: Attribution-ShareAlike 4.0 International (CC BY-SA 4.0)
(c)2019 Simon Inns
https://www.domesday86.com
Sheet: /Memory/
File: memory.sch
Title: Acorn Master 128 - Memory
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 3/30


+5VB
CD[0..7]
A[0..15]
RD[0..7]
IC24
MOS
IC27
27C256
IC37
27C256
IC41
27C256
AA15
LK9
Jumper_3_Bridged12
0VB
AA16
AA14
AT15
X
Y
R128
4K7
R129
4K7
License: Attribution-ShareAlike 4.0 International (CC BY-SA 4.0)
(c)2019 Simon Inns
https://www.domesday86.com
Sheet: /Memory/ROMs/
File: roms.sch
Title: Acorn Master 128 - ROMs
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 4/30

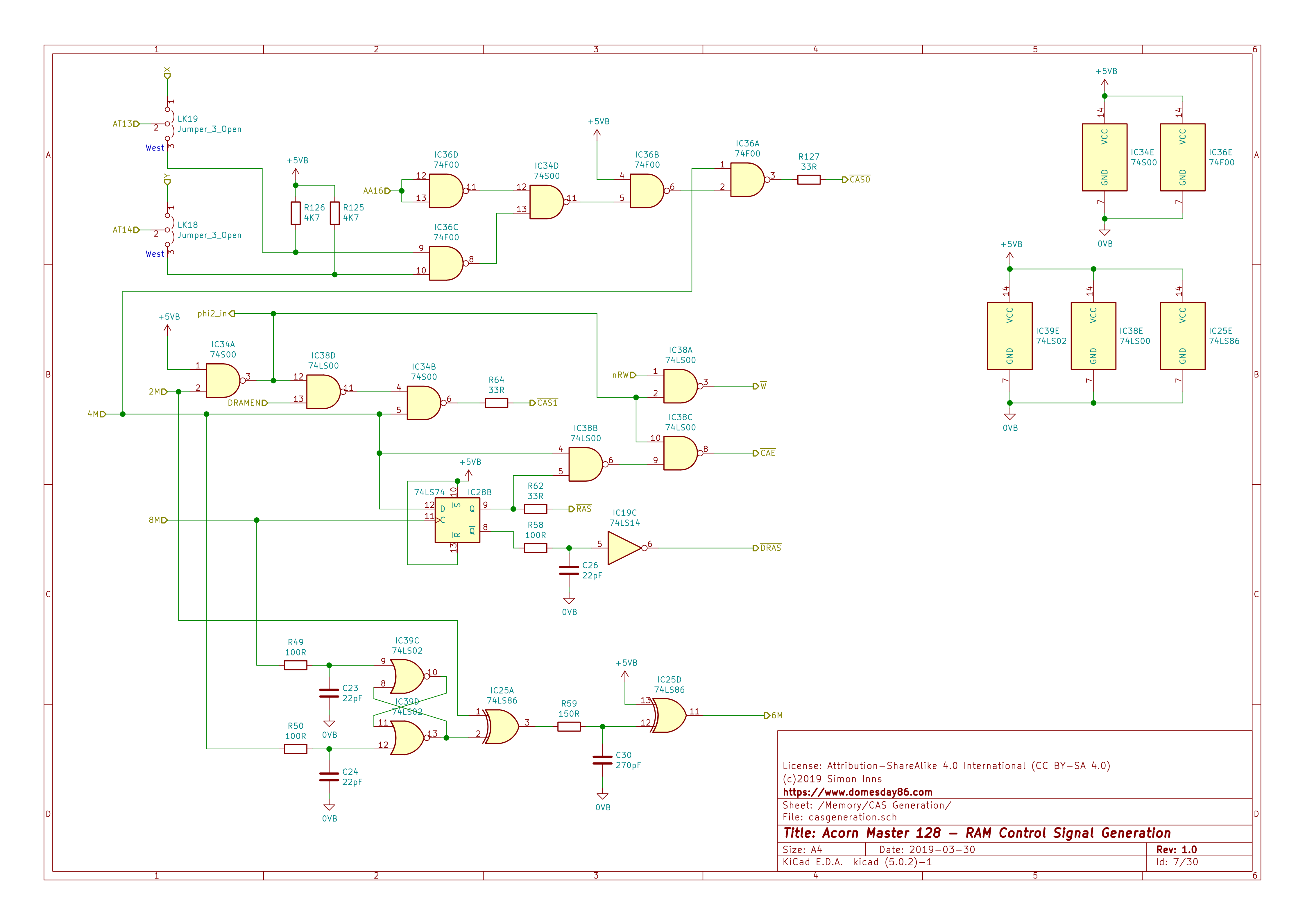

DMA[0..7]
CD[0..7]
DMA[0..7]
CD[0..7]
+5VB
IC26
IC18
IC23
IC17
HM50464-12
DMA6 14 A0
DMA5 13 A1
DMA4 12 A2
DMA3 11 A3
DMA2 8 A4
DMA1 7 A5
DMA0 6 A6
DMA7 10 A7
9 Vcc
18 Vss
DQ1 2 CD3
DQ2 3 CD2
DQ3 15 CD1
DQ4 17 CD0
WE 4
RAS 5
CAS 16
OE 1
0VB
CAS0
RAS
W
CAS1
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(c)2019 Simon Inns
https://www.domesday86.com
Sheet: /Memory/RAM/
File: ram.sch
Title: Acorn Master 128 - RAM
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 5/30



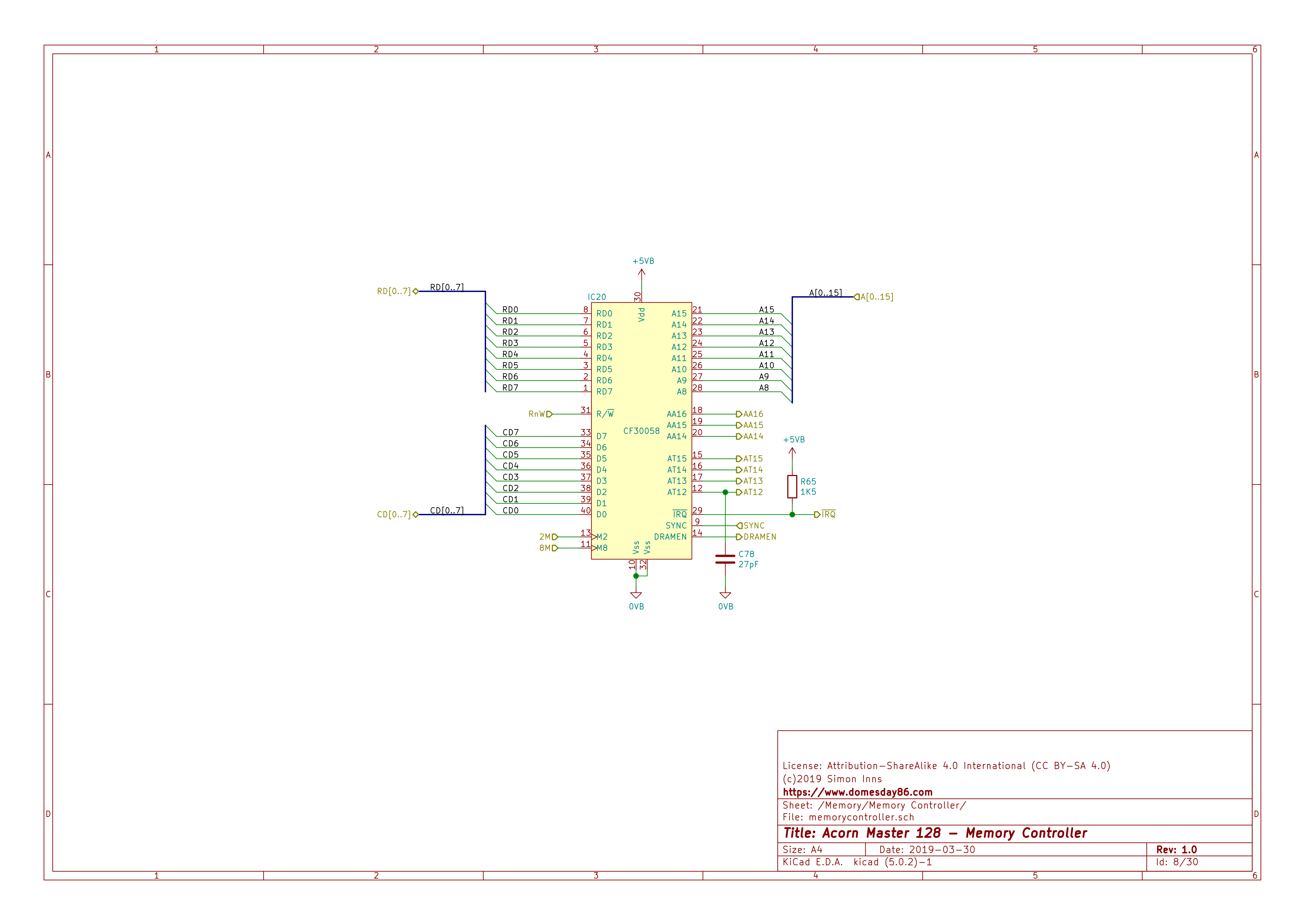
https://www.domesday86.com
Sheet: /Memory/RAM Address bus/
File: ramaddr.sch

Title: Acorn Master 128 - RAM Address Bus

Size: A4	Date: 2019-03-30	**Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1		Id: 6/30



X
AT13
LK19
Jumper_3_Open
West
Y
AT14
LK18
Jumper_3_Open
West
+5VB
R126
4K7
R125
4K7
AA16
IC36D
74F00
IC36C
74F00
IC34D
74S00
+5VB
IC36B
74F00
IC36A
74F00
R127
33R
CAS0
+5VB
IC34E
74S00
IC36E
74F00
VCC
GND
0VB
phi2_in
+5VB
IC34A
74S00
2M
IC38D
74LS00
DRAMEN
4M
IC34B
74S00
R64
33R
CAS1
nRW
IC38A
74LS00
W
IC38B
74LS00
IC38C
74LS00
CAE
+5VB
74LS74
IC28B
8M
R62
33R
RAS
R58
100R
IC19C
74LS14
DRAS
C26
22pF
0VB
+5VB
IC39E
74LS02
IC38E
74LS00
IC25E
74LS86
0VB
R49
100R
C23
22pF
0VB
IC39C
74LS02
IC39D
74LS02
R50
100R
C24
22pF
0VB
IC25A
74LS86
R59
150R
C30
270pF
0VB
+5VB
IC25D
74LS86
6M
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https://www.domesday86.com
Sheet: /Memory/CAS Generation/
File: casgeneration.sch
Title: Acorn Master 128 - RAM Control Signal Generation
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 7/30



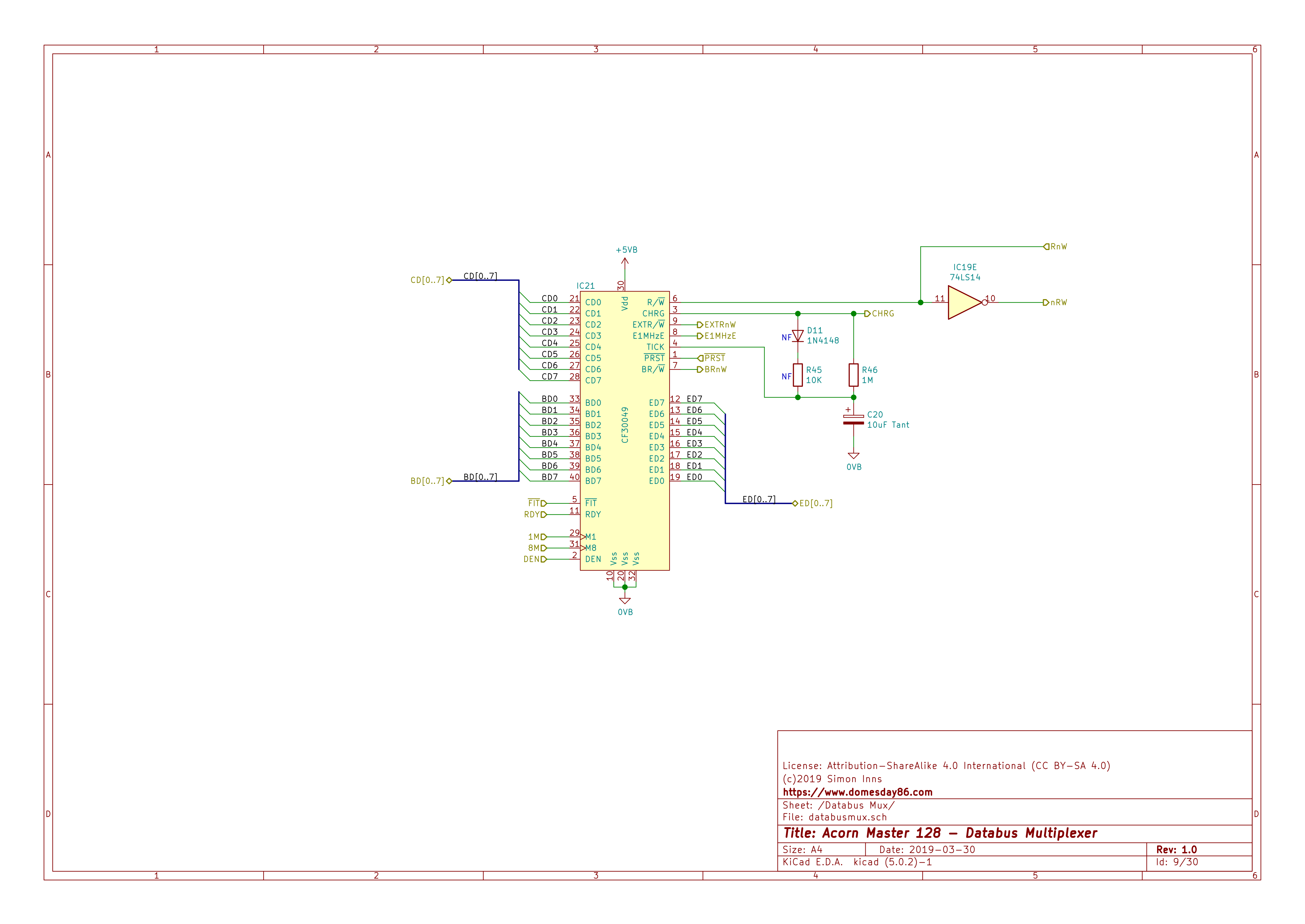
https://www.domesday86.com

Sheet: /Memory/Memory Controller/
File: memorycontroller.sch

Title: Acorn Master 128 - Memory Controller

Size: A4 | Date: 2019-03-30 | **Rev: 1.0**

KiCad E.D.A. kicad (5.0.2)-1 | Id: 8/30



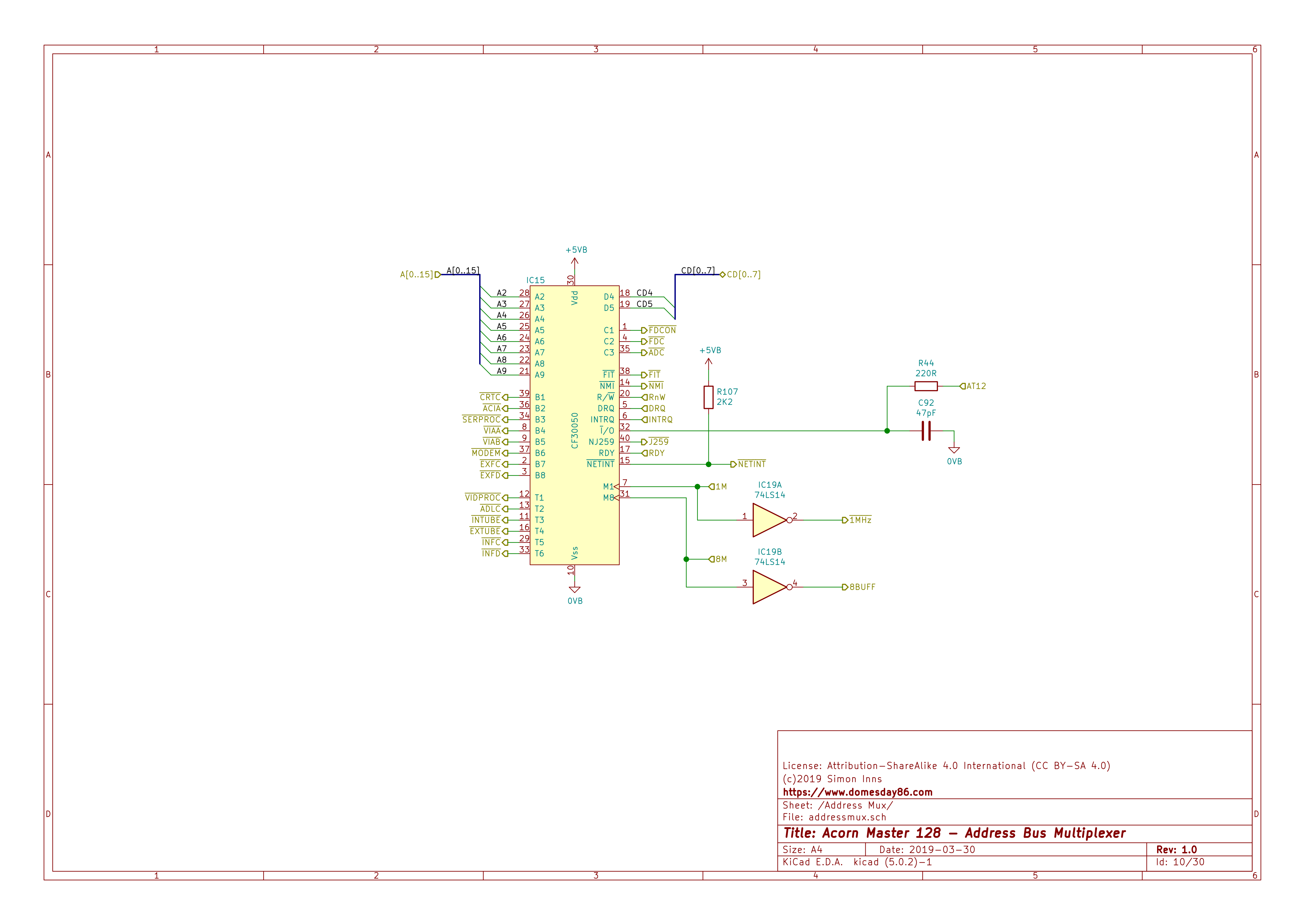
https://www.domesday86.com

Sheet: /Databus Mux/
File: databusmux.sch

Title: Acorn Master 128 - Databus Multiplexer

Size: A4 | Date: 2019-03-30 | **Rev: 1.0**

KiCad E.D.A. kicad (5.0.2)-1 | Id: 9/30



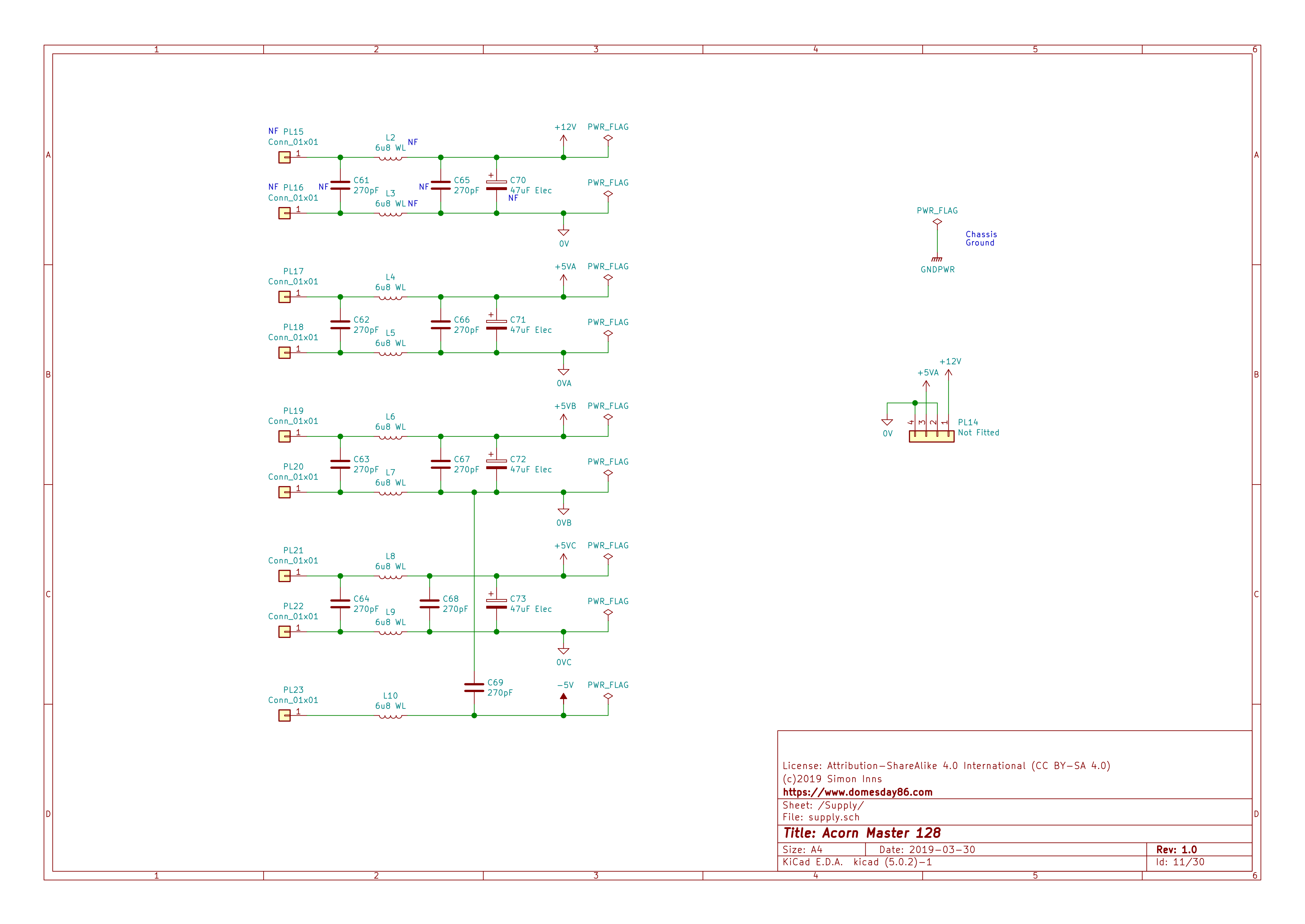
https://www.domesday86.com

Sheet: /Address Mux/
File: addressmux.sch

Title: Acorn Master 128 - Address Bus Multiplexer

Size: A4 | Date: 2019-03-30 | **Rev: 1.0**

KiCad E.D.A. kicad (5.0.2)-1 | Id: 10/30

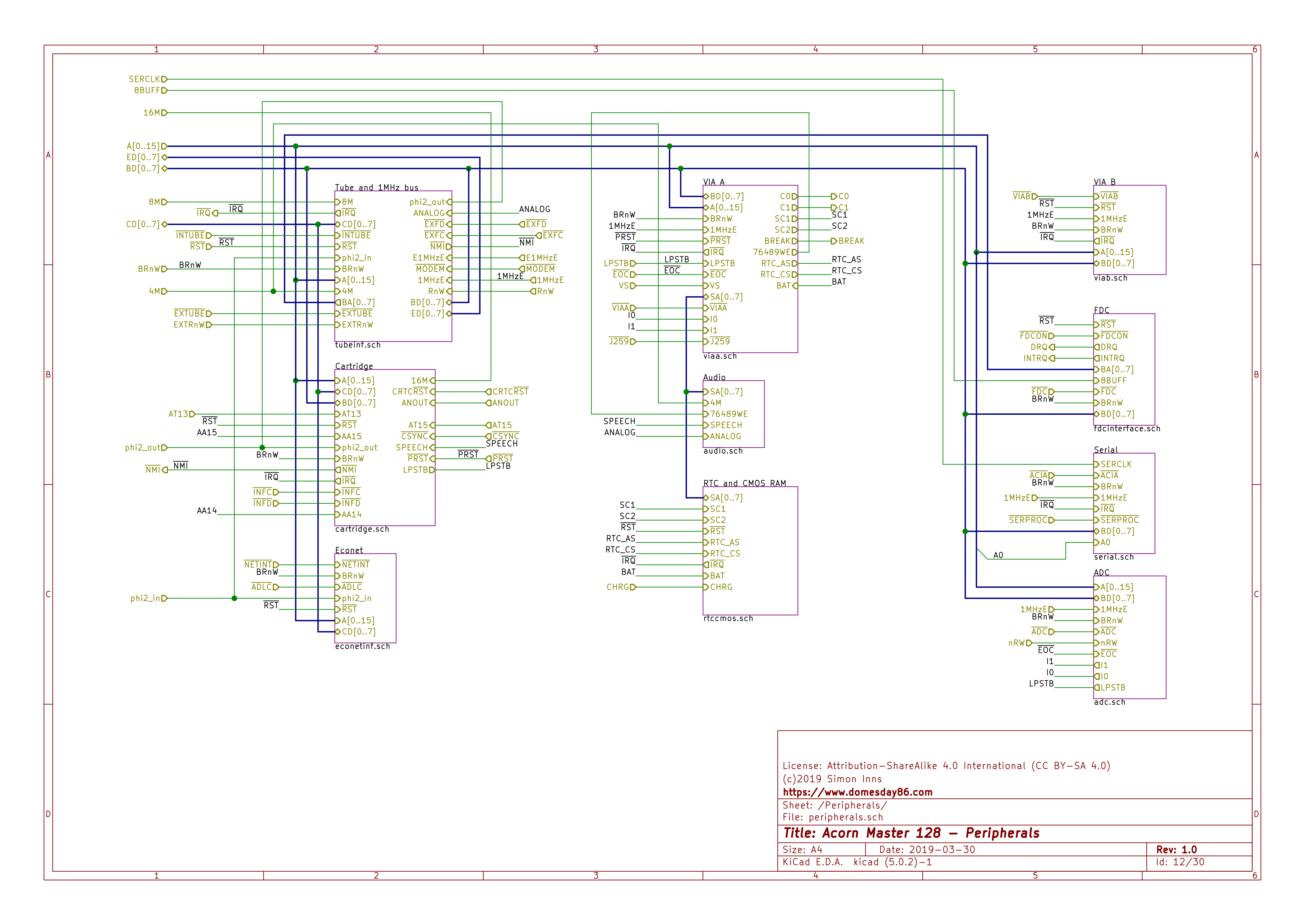


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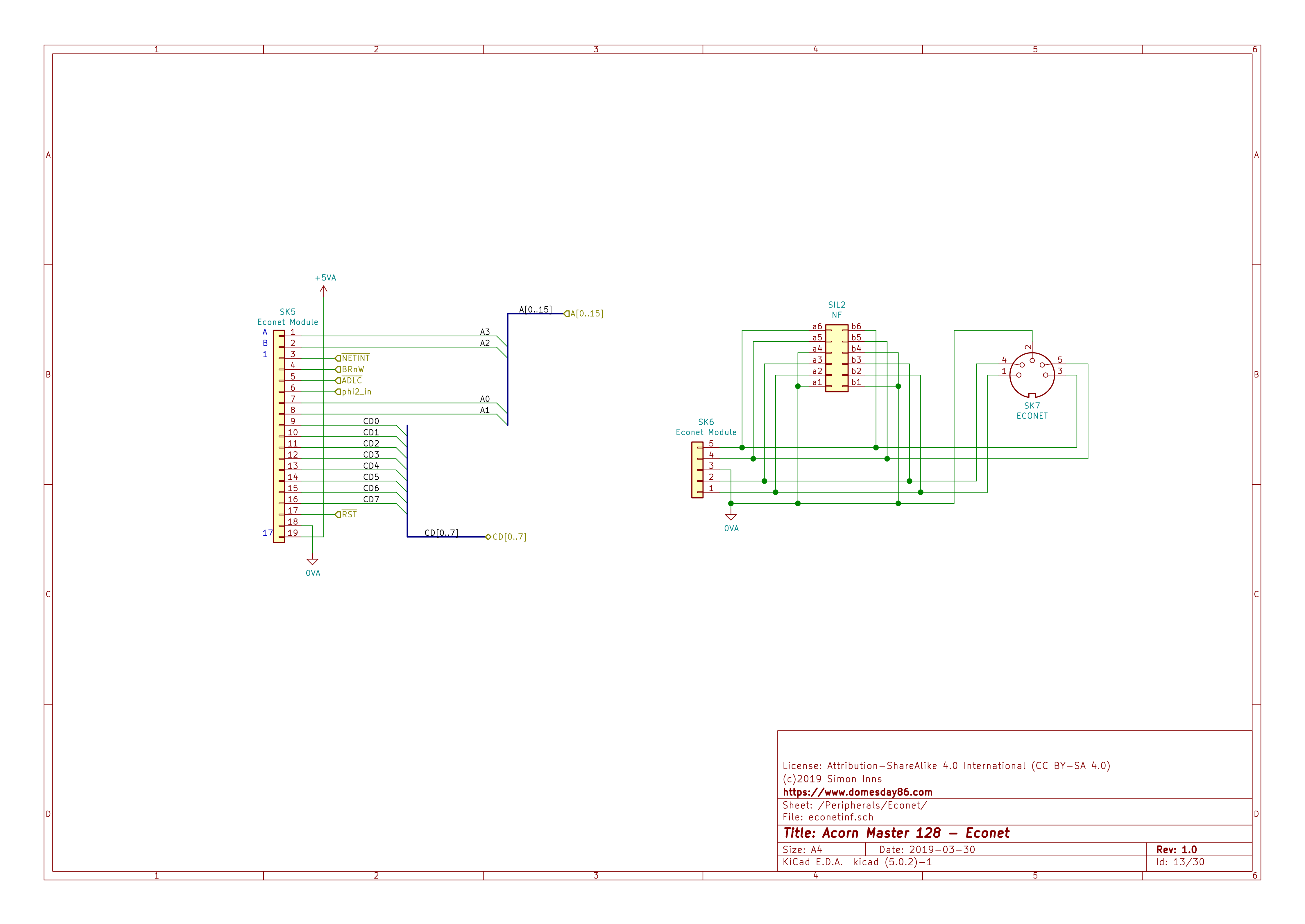
Sheet: /Supply/
File: supply.sch

Title: Acorn Master 128

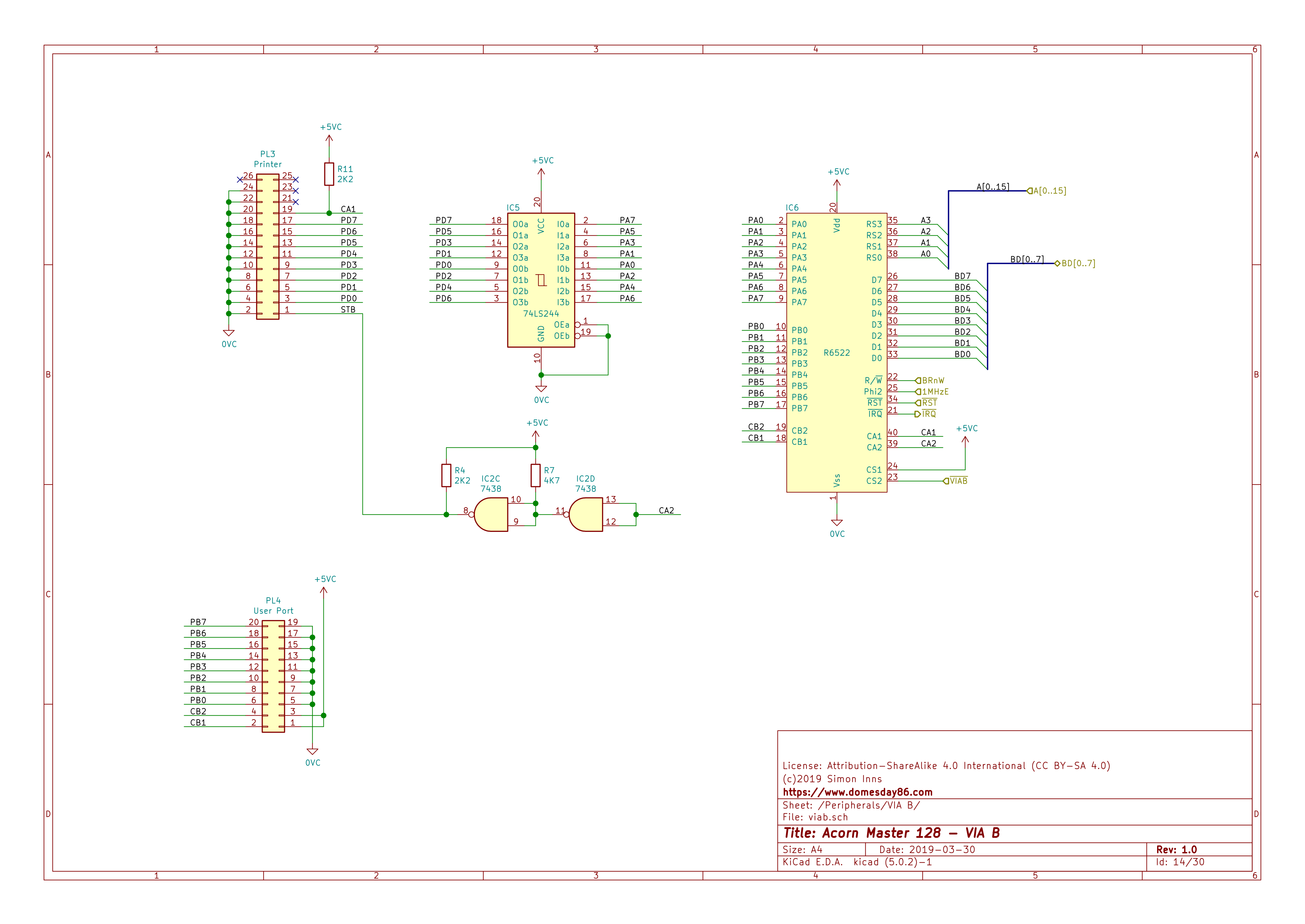
Size: A4 | Date: 2019-03-30 | **Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1 | Id: 11/30

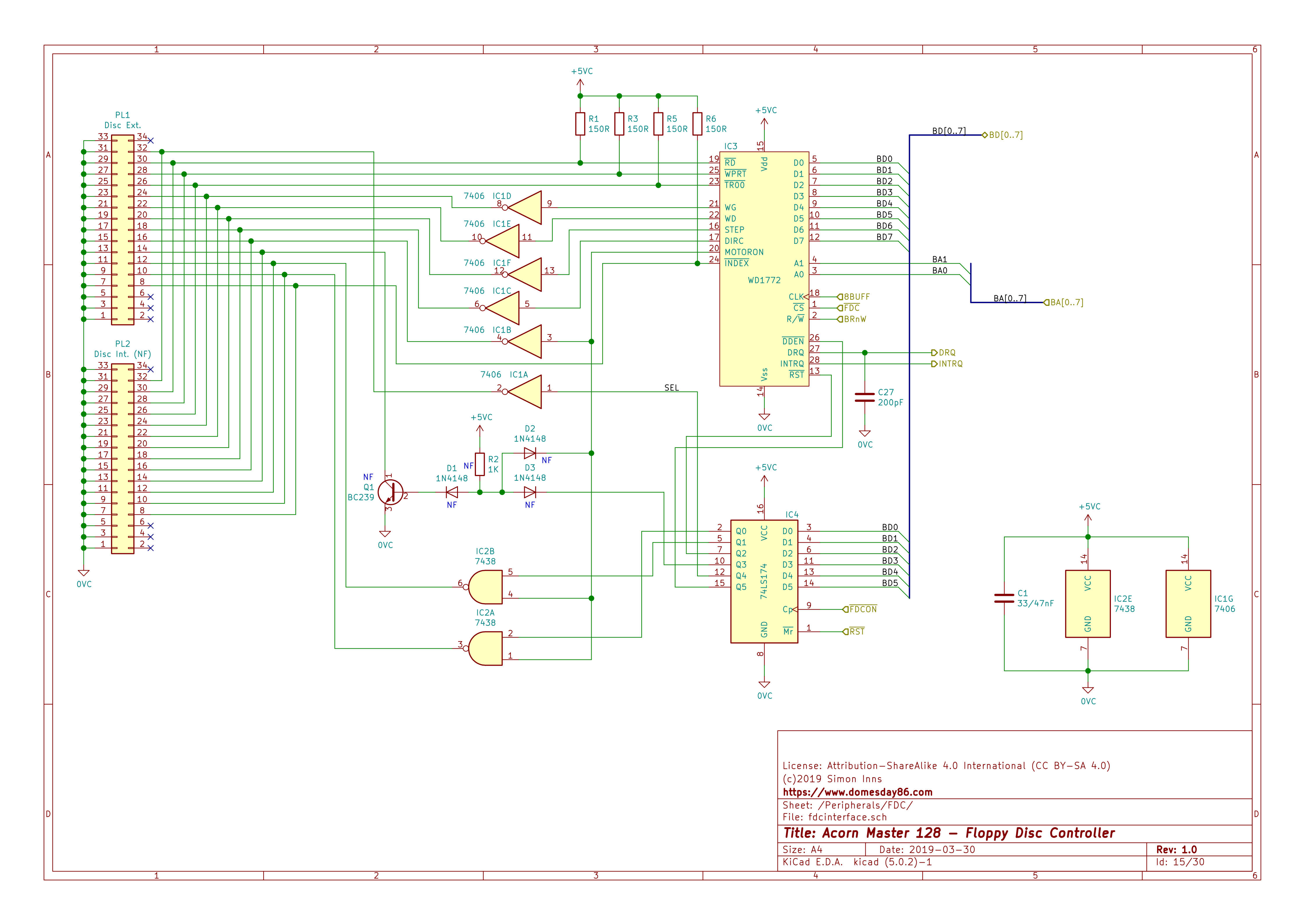


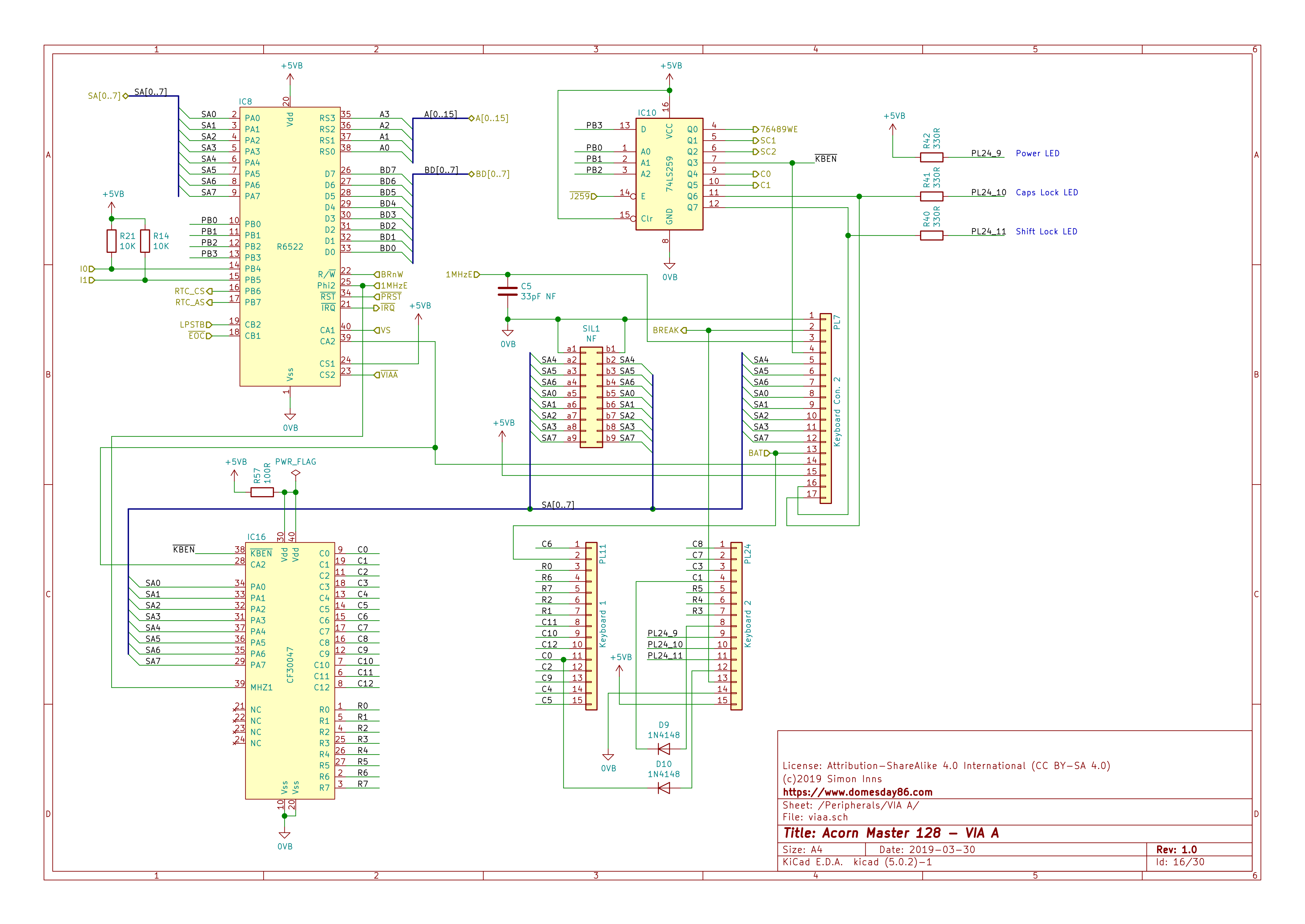
Tube and 1MHz bus
tubeinf.sch
Cartridge
cartridge.sch
Econet
econetinf.sch
VIA A
viaa.sch
Audio
audio.sch
RTC and CMOS RAM
rtccmos.sch
VIA B
viab.sch
FDC
fdcinterface.sch
Serial
serial.sch
ADC
adc.sch
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https://www.domesday86.com
Sheet: /Peripherals/
File: peripherals.sch
Title: Acorn Master 128 - Peripherals
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 12/30



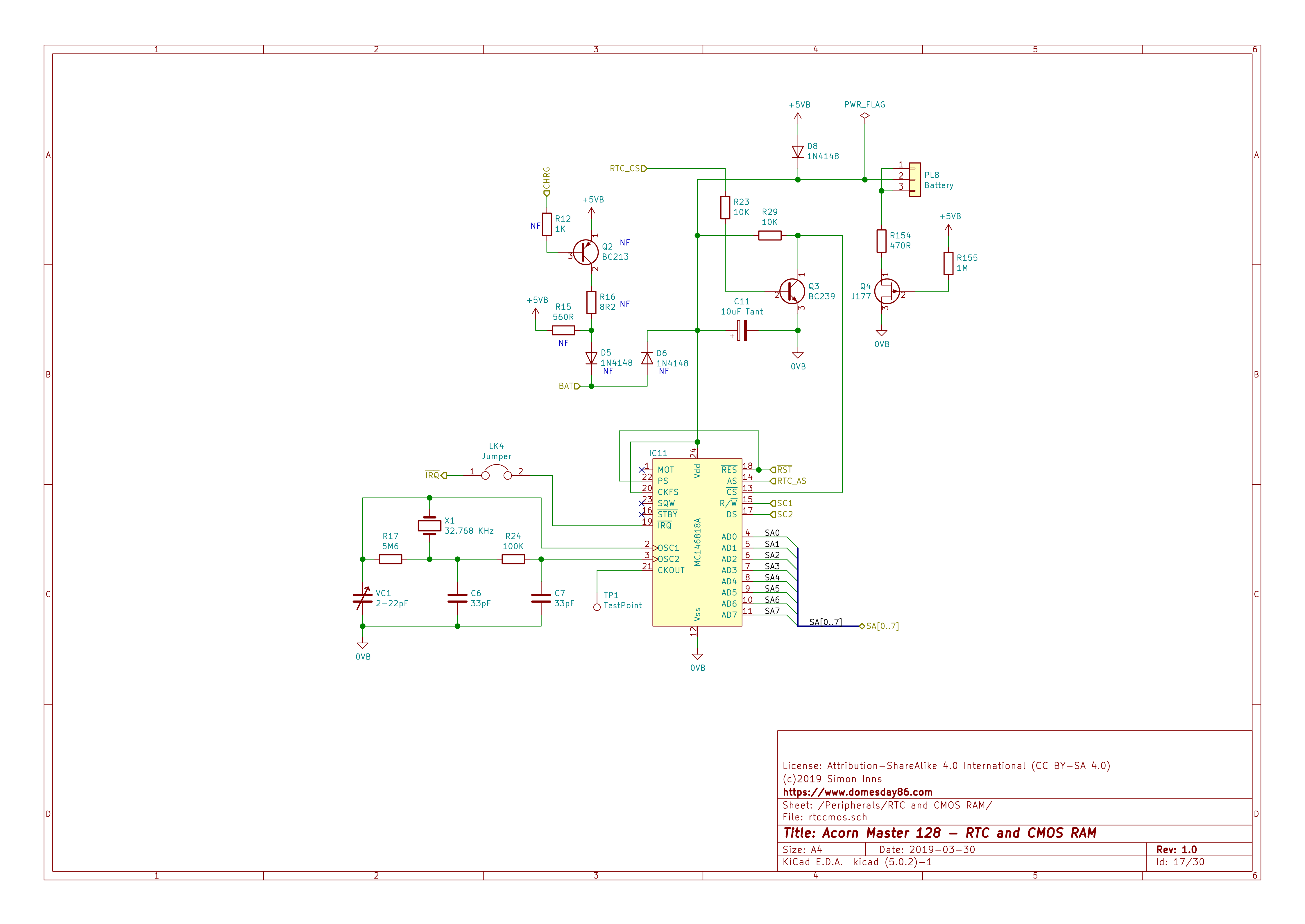
https://www.domesday86.com
Sheet: /Peripherals/Econet/
File: econetinf.sch
Title: Acorn Master 128 - Econet
Size: A4 | Date: 2019-03-30 | **Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1 | Id: 13/30


+5VC
PL3
Printer
R11
2K2
CA1
PD7
PD6
PD5
PD4
PD3
PD2
PD1
PD0
STB
0VC
IC5
74LS244
IC6
R6522
A[0..15]
BD[0..7]
BRnW
1MHzE
RST
IRQ
VIAB
CA2
R4
2K2
R7
4K7
IC2C
7438
IC2D
7438
PL4
User Port
PB7
PB6
PB5
PB4
PB3
PB2
PB1
PB0
CB2
CB1
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https://www.domesday86.com
Sheet: /Peripherals/VIA B/
File: viab.sch
Title: Acorn Master 128 - VIA B
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 14/30


PL1
Disc Ext.
PL2
Disc Int. (NF)
0VC
+5VC
R1
150R
R3
150R
R5
150R
R6
150R
IC3
WD1772
Vdd
Vss
RD
WPRT
TR00
WG
WD
STEP
DIRC
MOTORON
INDEX
D0
D1
D2
D3
D4
D5
D6
D7
A1
A0
CLK
CS
R/W
DDEN
DRQ
INTRQ
RST
BD[0..7]
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
BA1
BA0
BA[0..7]
8BUFF
FDC
BRnW
DRQ
INTRQ
C27
200pF
7406 IC1D
7406 IC1E
7406 IC1F
7406 IC1C
7406 IC1B
7406 IC1A
SEL
NF
Q1
BC239
D1
1N4148
R2
1K
D2
1N4148
D3
1N4148
IC2B
7438
IC2A
7438
IC4
74LS174
VCC
GND
Q0
Q1
Q2
Q3
Q4
Q5
Cp
Mr
FDCON
RST
C1
33/47nF
IC2E
7438
IC1G
7406
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https://www.domesday86.com
Sheet: /Peripherals/FDC/
File: fdcinterface.sch
Title: Acorn Master 128 - Floppy Disc Controller
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 15/30



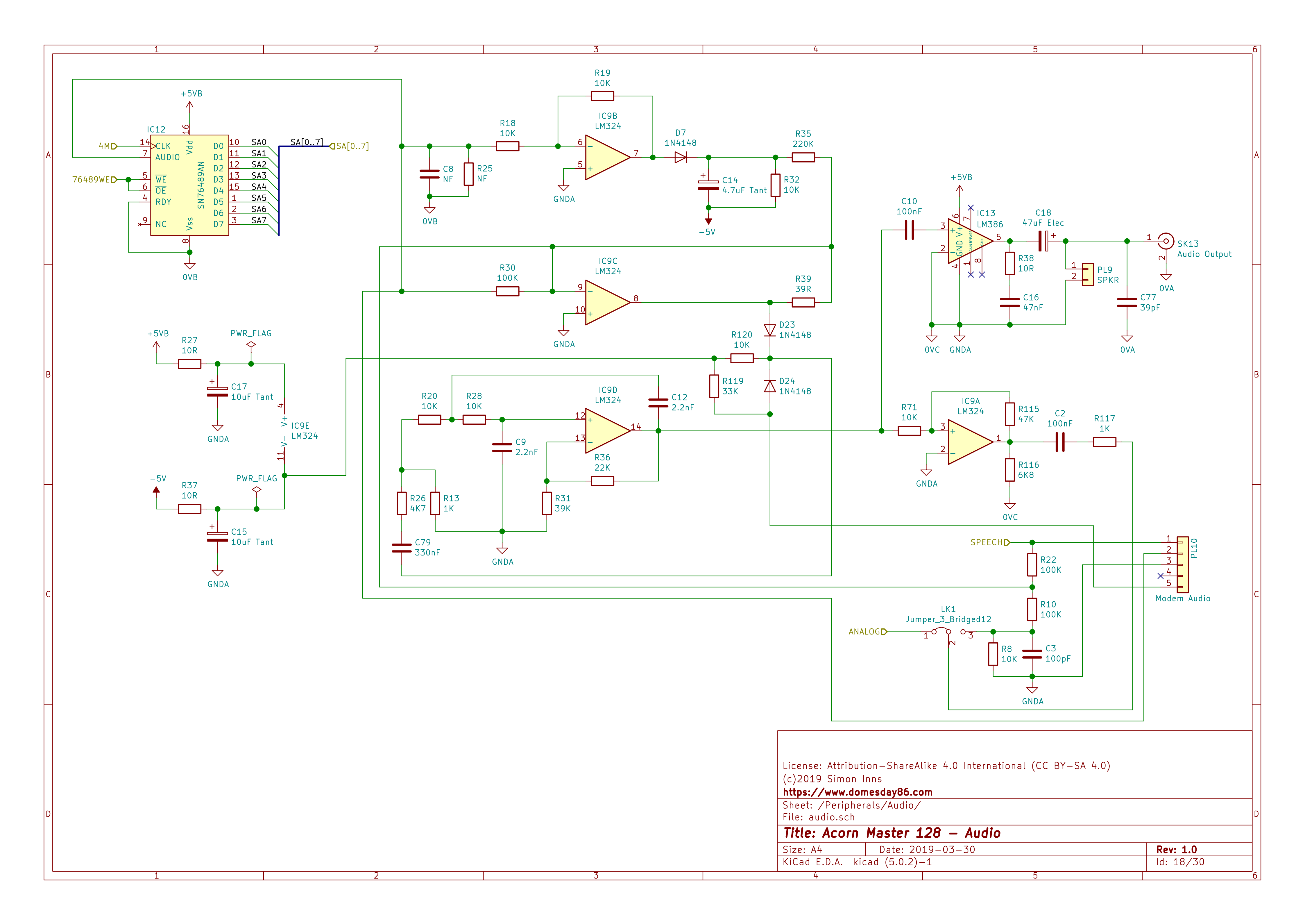
SA[0..7]
IC8
+5VB
Vdd
R6522
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
CB2
CB1
RS3
RS2
RS1
RS0
D7
D6
D5
D4
D3
D2
D1
D0
R/W
Phi2
RST
IRQ
CA1
CA2
CS1
CS2
Vss
A3
A2
A1
A0
A[0..15]
BD7
BD6
BD5
BD4
BD3
BD2
BD1
BD0
BD[0..7]
BRnW
1MHzE
PRST
IRQ
VS
VIAA
0VB
R21
10K
R14
10K
I0
I1
RTC_CS
RTC_AS
LPSTB
EOC
PB3
PB0
PB1
PB2
J259
IC10
74LS259
D
A0
A1
A2
E
Clr
VCC
GND
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
76489WE
SC1
SC2
KBEN
C0
C1
C5
33pF NF
SIL1
NF
BREAK
BAT
PL7
Keyboard Con. 2
R42
330R
R41
330R
R40
330R
PL24_9
PL24_10
PL24_11
Power LED
Caps Lock LED
Shift Lock LED
R57
100R
PWR_FLAG
IC16
CF30047
KBEN
CA2
MHZ1
NC
R0
R1
R2
R3
R4
R5
R6
R7
C0
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
PL11
Keyboard 1
PL24
Keyboard 2
D9
1N4148
D10
1N4148
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https://www.domesday86.com
Sheet: /Peripherals/VIA A/
File: viaa.sch
Title: Acorn Master 128 - VIA A
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 16/30



https://www.domesday86.com
Sheet: /Peripherals/RTC and CMOS RAM/
File: rtccmos.sch

Title: Acorn Master 128 – RTC and CMOS RAM

Size: A4 Date: 2019-03-30 **Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1 Id: 17/30

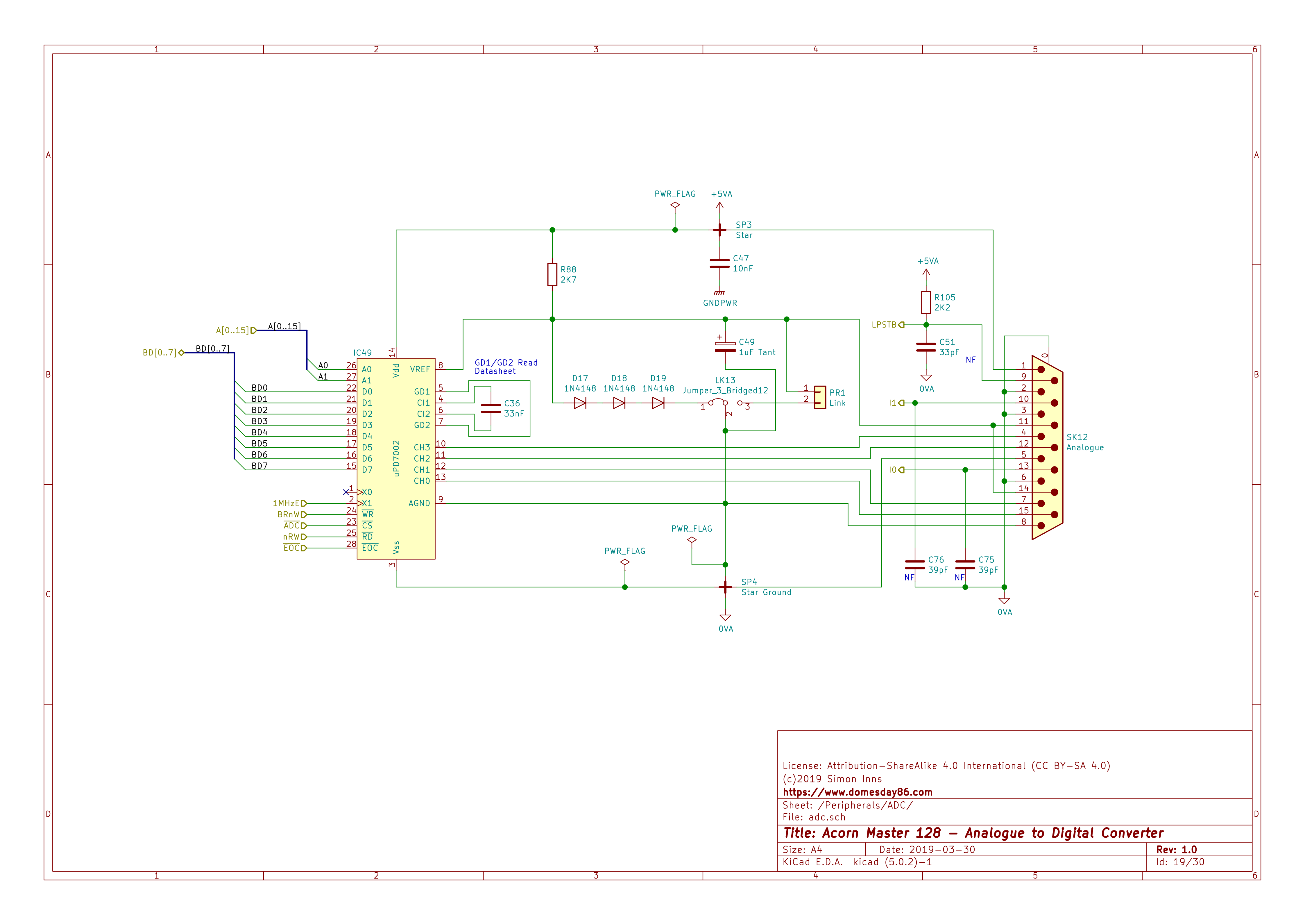


https://www.domesday86.com

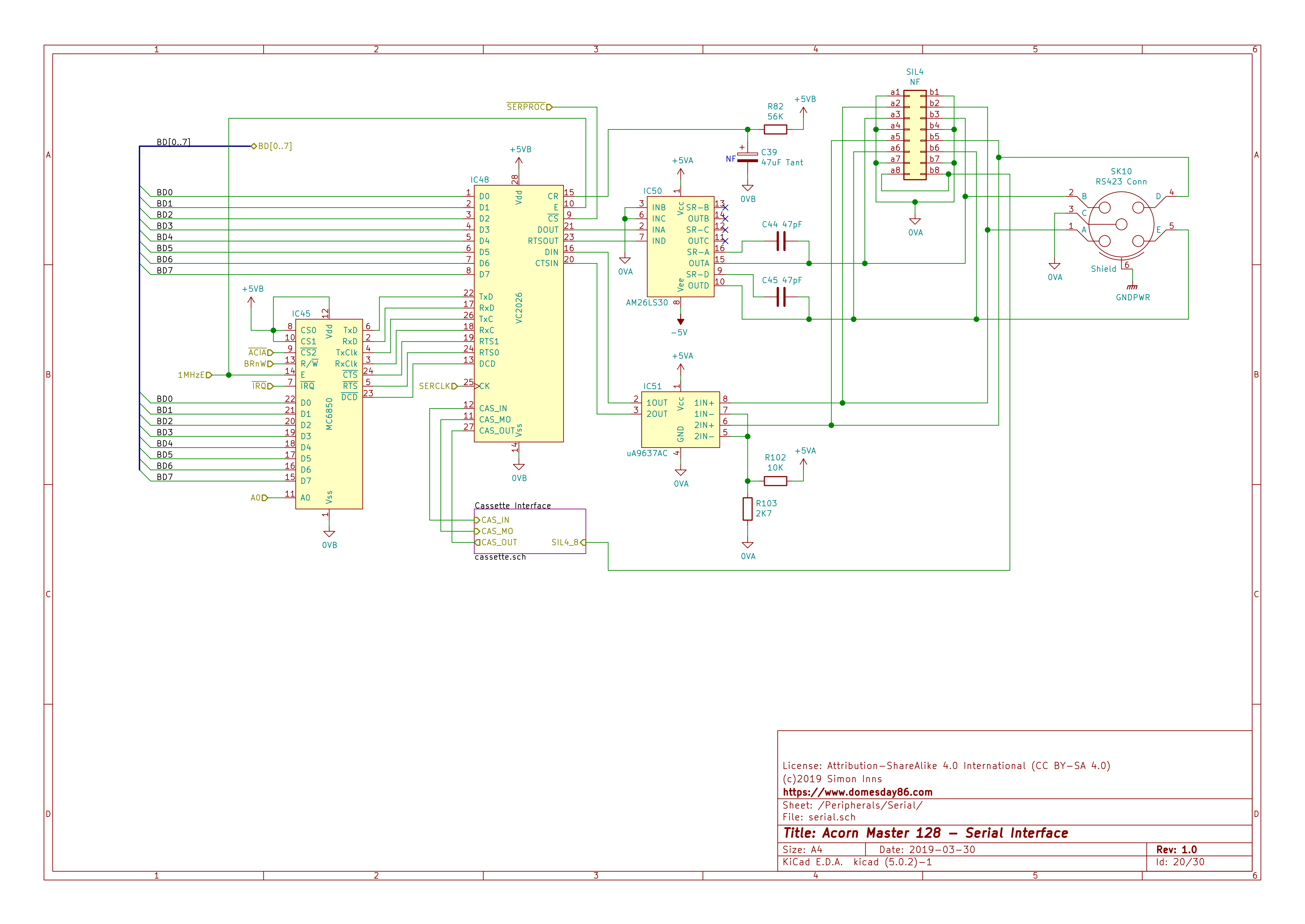
Sheet: /Peripherals/Audio/
File: audio.sch

Title: Acorn Master 128 - Audio

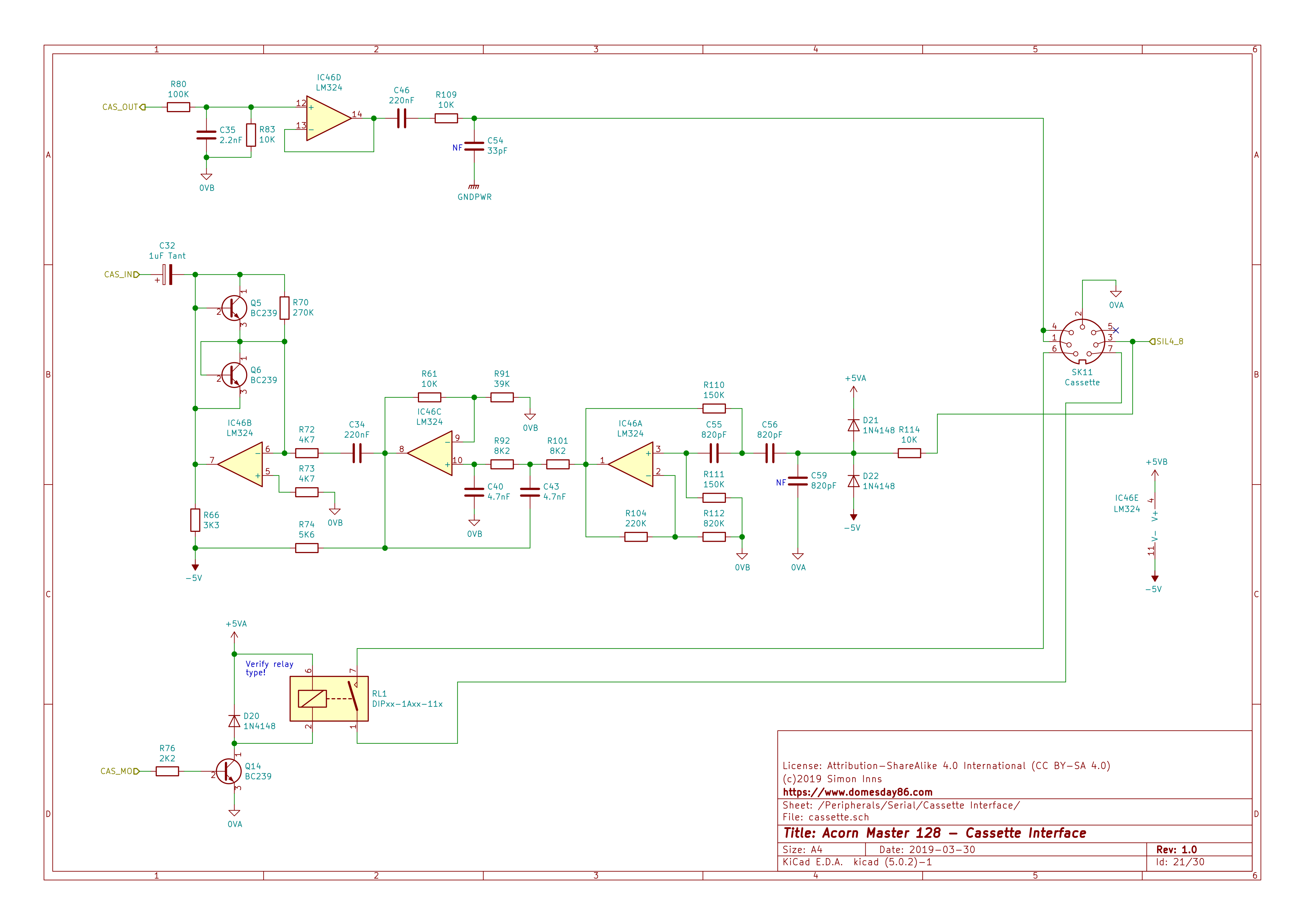
Size: A4	Date: 2019-03-30	**Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1		Id: 18/30



PWR_FLAG
+5VA
SP3
Star
C47
10nF
GNDPWR
R88
2K7
+5VA
R105
2K2
LPSTB
C51
33pF
NF
0VA
A[0..15]
A[0..15]
BD[0..7]
BD[0..7]
IC49
A0
A1
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
uPD7002
VREF
GD1
CI1
CI2
GD2
CH3
CH2
CH1
CH0
AGND
Vdd
Vss
X0
X1
WR
CS
RD
EOC
1MHzE
BRnW
ADC
nRW
EOC
GD1/GD2 Read
Datasheet
C36
33nF
C49
1uF Tant
D17
1N4148
D18
1N4148
D19
1N4148
LK13
Jumper_3_Bridged12
PR1
Link
I1
I0
SK12
Analogue
PWR_FLAG
PWR_FLAG
SP4
Star Ground
0VA
C76
39pF
NF
C75
39pF
NF
0VA
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https://www.domesday86.com
Sheet: /Peripherals/ADC/
File: adc.sch
Title: Acorn Master 128 - Analogue to Digital Converter
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 19/30



BD[0..7]
SERPROC
+5VB
R82
56K
SIL4
NF
a1 a2 a3 a4 a5 a6 a7 a8
b1 b2 b3 b4 b5 b6 b7 b8
C39
47uF Tant
NF
0VB
IC48
D0 D1 D2 D3 D4 D5 D6 D7
Vdd
CR
E
CS
DOUT
RTSOUT
DIN
CTSIN
VC2026
TxD RxD TxC RxC RTS1 RTS0 DCD
CK
SERCLK
CAS_IN
CAS_MO
CAS_OUT
Vss
BD0 BD1 BD2 BD3 BD4 BD5 BD6 BD7
IC50
+5VA
INB INC INA IND
Vcc
SR−B OUTB SR−C OUTC SR−A OUTA SR−D OUTD
Vee
AM26LS30
−5V
0VA
C44 47pF
C45 47pF
SK10
RS423 Conn
Shield
GNDPWR
IC45
CS0 CS1 CS2
R/W
E
IRQ
TxD RxD TxClk RxClk CTS RTS DCD
MC6850
A0
ACIA
BRnW
1MHzE
IRQ
IC51
1OUT 2OUT
1IN+ 1IN− 2IN+ 2IN−
GND
uA9637AC
R102
10K
R103
2K7
Cassette Interface
CAS_IN
CAS_MO
CAS_OUT
SIL4_8
cassette.sch
License: Attribution−ShareAlike 4.0 International (CC BY−SA 4.0)
(c)2019 Simon Inns
https://www.domesday86.com
Sheet: /Peripherals/Serial/
File: serial.sch
Title: Acorn Master 128 − Serial Interface
Size: A4
Date: 2019−03−30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)−1
Id: 20/30

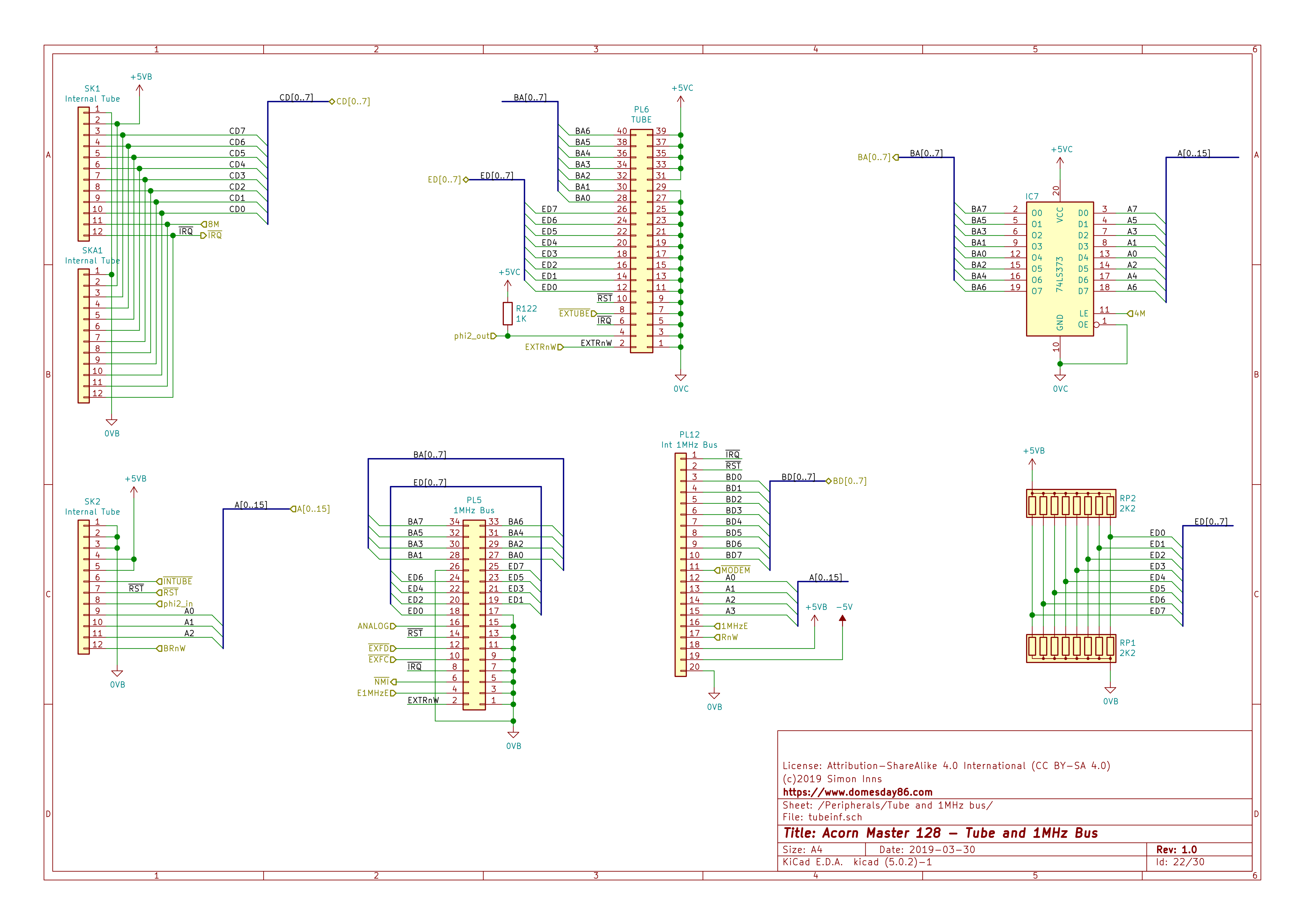


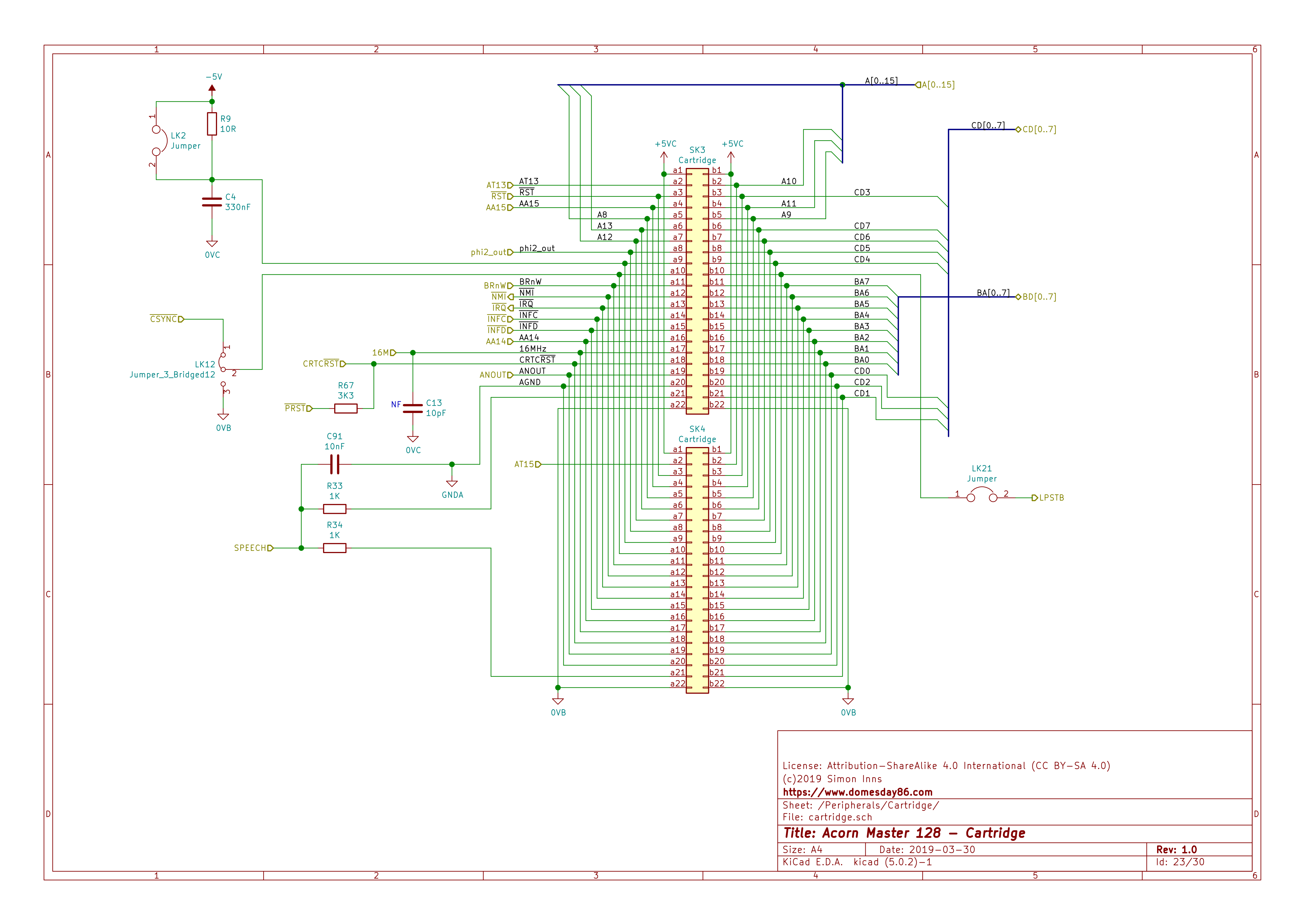
https://www.domesday86.com

Sheet: /Peripherals/Serial/Cassette Interface/
File: cassette.sch

Title: Acorn Master 128 - Cassette Interface

Size: A4 | Date: 2019-03-30 | **Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1 | Id: 21/30

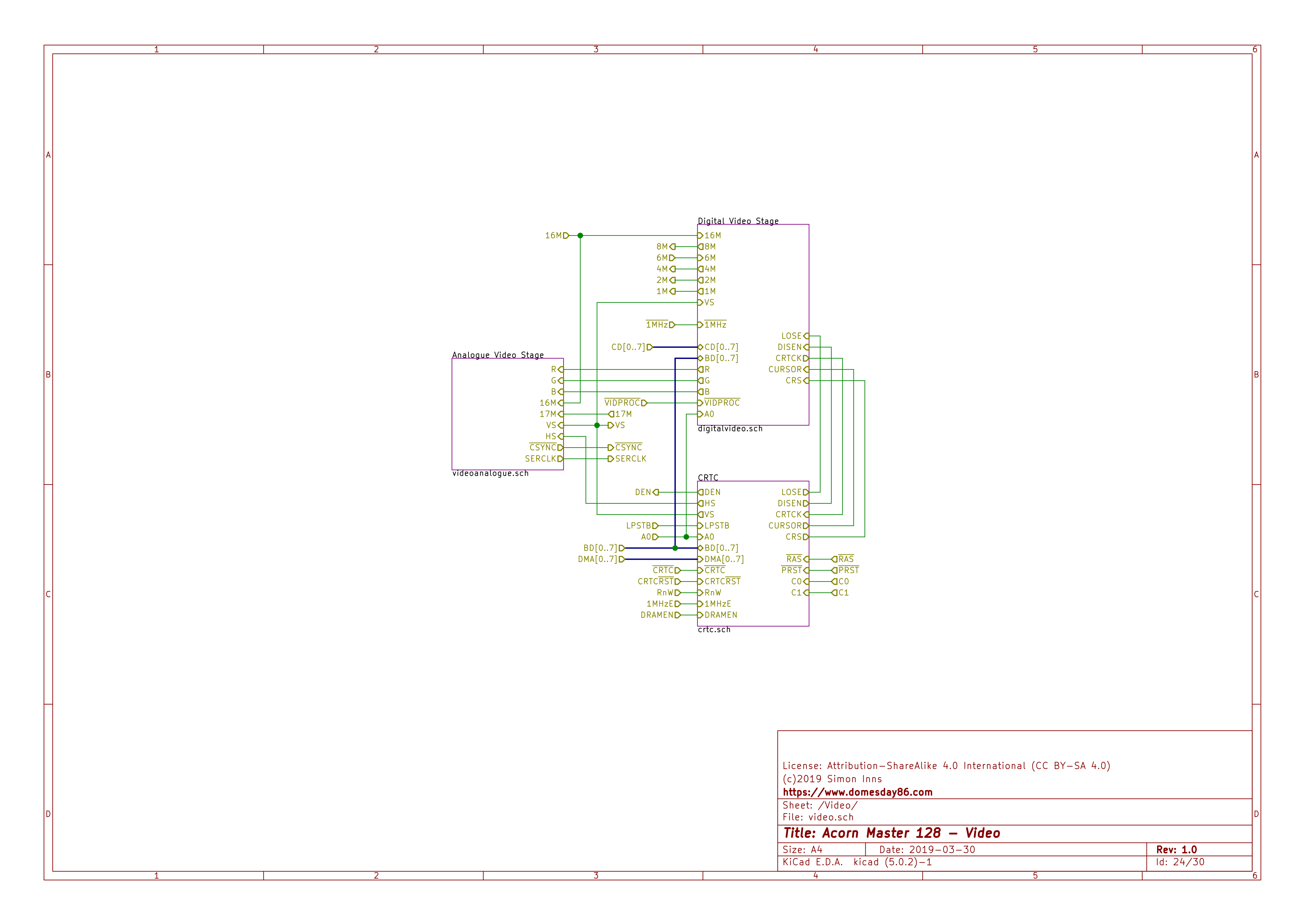

SK1
Internal Tube
SKA1
Internal Tube
SK2
Internal Tube
+5VB
0VB
CD[0..7]
CD7
CD6
CD5
CD4
CD3
CD2
CD1
CD0
8M
IRQ
INTUBE
RST
phi2_in
A0
A1
A2
BRnW
A[0..15]
BA[0..7]
ED[0..7]
PL6
TUBE
+5VC
0VC
R122
1K
phi2_out
EXTUBE
EXTRnW
IC7
74LS373
VCC
GND
LE
OE
4M
PL5
1MHz Bus
ANALOG
EXFD
EXFC
NMI
E1MHzE
PL12
Int 1MHz Bus
BD[0..7]
MODEM
1MHzE
RnW
-5V
RP2
2K2
RP1
2K2
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https://www.domesday86.com
Sheet: /Peripherals/Tube and 1MHz bus/
File: tubeinf.sch
Title: Acorn Master 128 - Tube and 1MHz Bus
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 22/30



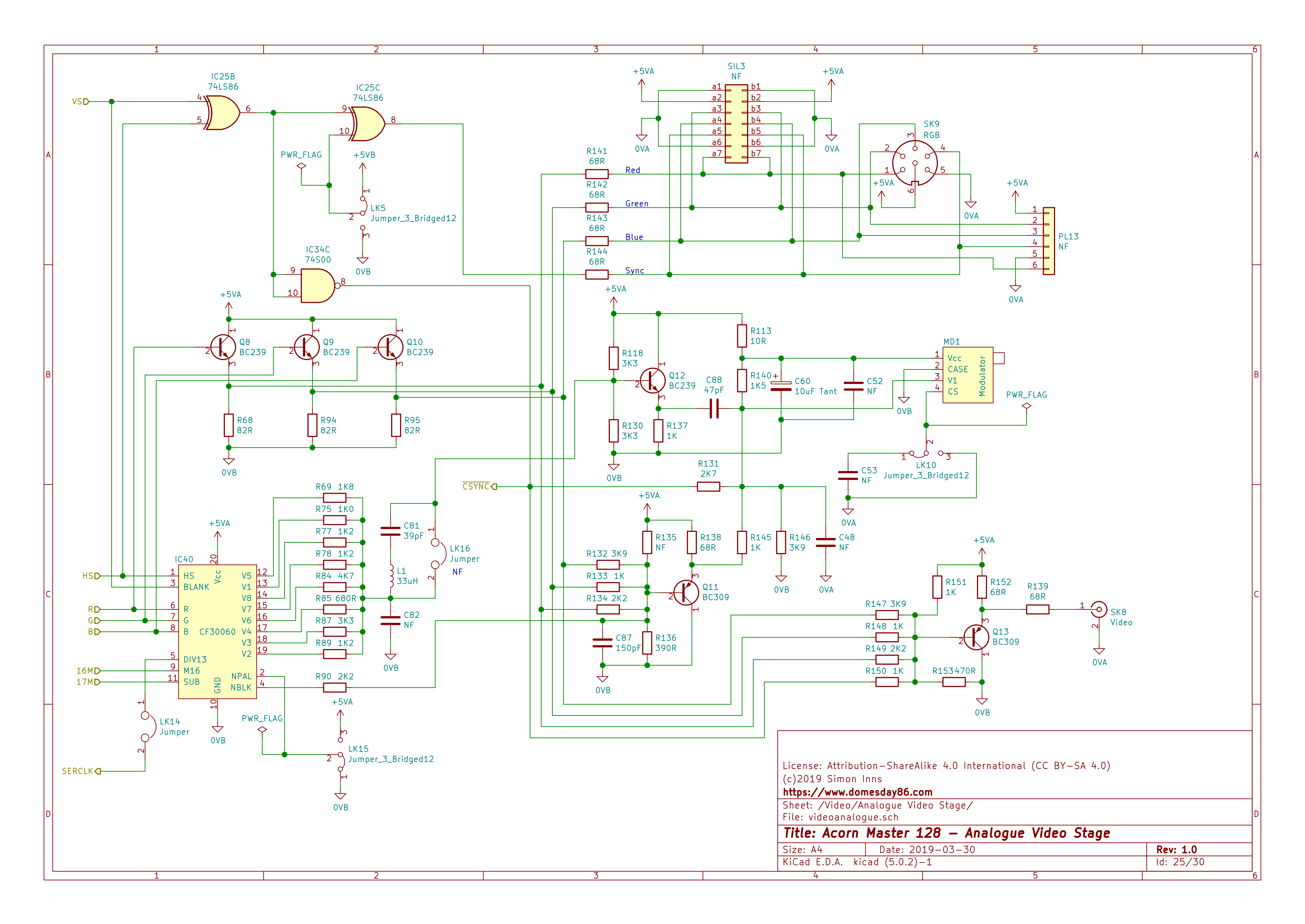
https://www.domesday86.com
Sheet: /Peripherals/Cartridge/
File: cartridge.sch

Title: Acorn Master 128 - Cartridge

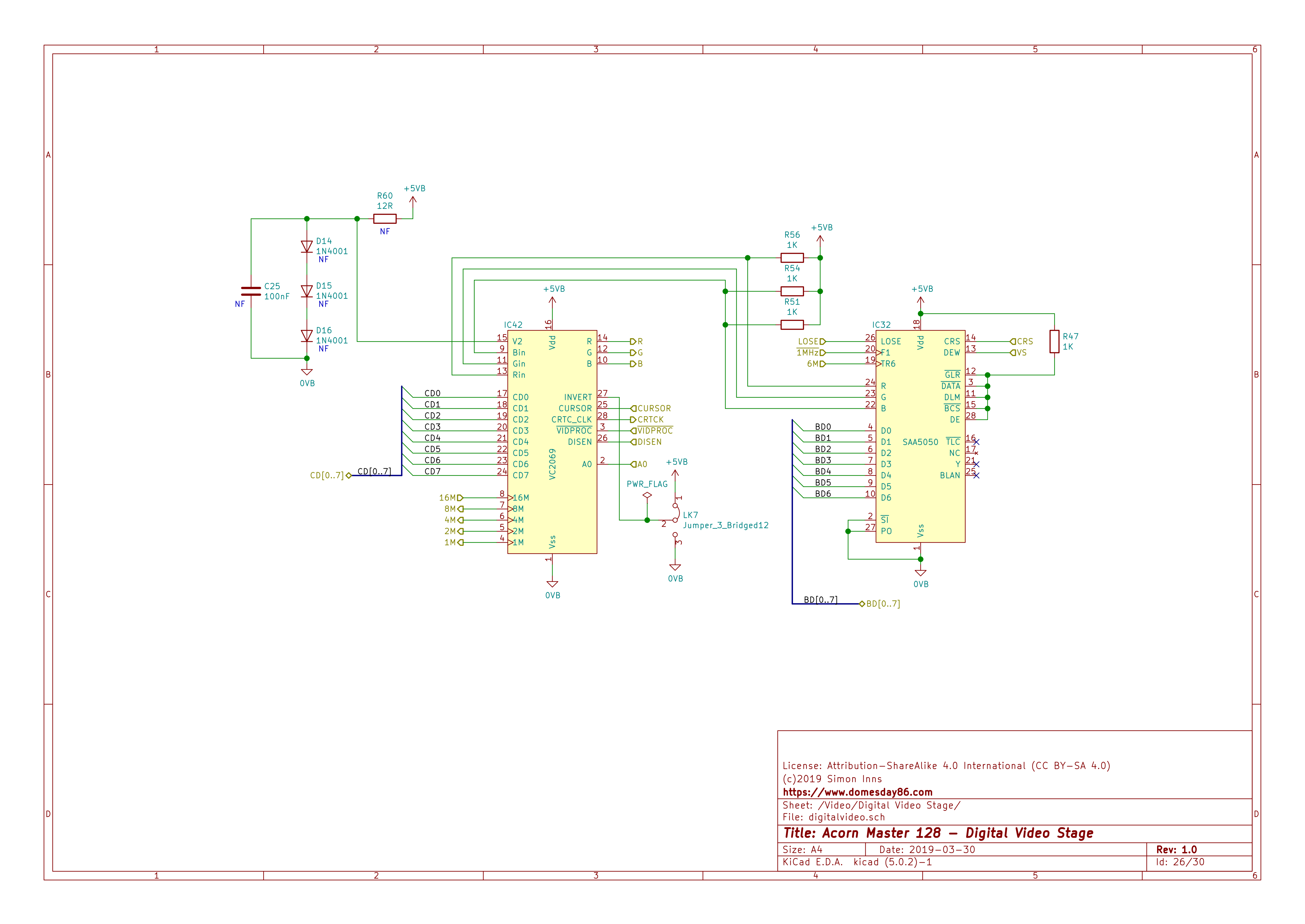
Size: A4 | Date: 2019-03-30 | **Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1 | Id: 23/30



https://www.domesday86.com
Sheet: /Video/
File: video.sch
Title: Acorn Master 128 - Video
Size: A4 Date: 2019-03-30 **Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1 Id: 24/30



IC25B
74LS86
IC25C
74LS86
VS
HS
R
G
B
16M
17M
SERCLK
PWR_FLAG
+5VB
LK5
Jumper_3_Bridged12
0VB
IC34C
74S00
+5VA
Q8
BC239
Q9
BC239
Q10
BC239
R68
82R
R94
82R
R95
82R
SIL3
NF
0VA
R141
68R
Red
R142
68R
Green
R143
68R
Blue
R144
68R
Sync
SK9
RGB
PL13
NF
R113
10R
R118
3K3
Q12
BC239
C88
47pF
R140
1K5
C60
10uF Tant
C52
NF
MD1
Vcc
CASE
V1
CS
Modulator
R130
3K3
R137
1K
LK10
Jumper_3_Bridged12
C53
NF
CSYNC
R131
2K7
R69 1K8
R75 1K0
R77 1K2
R78 1K2
R84 4K7
R85 680R
R87 3K3
R89 1K2
R90 2K2
C81
39pF
LK16
Jumper
NF
L1
33uH
C82
NF
IC40
HS
BLANK
Vcc
DIV13
M16
SUB
GND
CF30060
V5
V1
V8
V7
V6
V4
V3
V2
NPAL
NBLK
LK14
Jumper
LK15
Jumper_3_Bridged12
R132 3K9
R133 1K
R134 2K2
R135
NF
R138
68R
Q11
BC309
C87
150pF
R136
390R
R145
1K
R146
3K9
C48
NF
R151
1K
R152
68R
R139
68R
SK8
Video
R147 3K9
R148 1K
R149 2K2
R150 1K
R153470R
Q13
BC309
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https://www.domesday86.com
Sheet: /Video/Analogue Video Stage/
File: videoanalogue.sch
Title: Acorn Master 128 - Analogue Video Stage
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 25/30

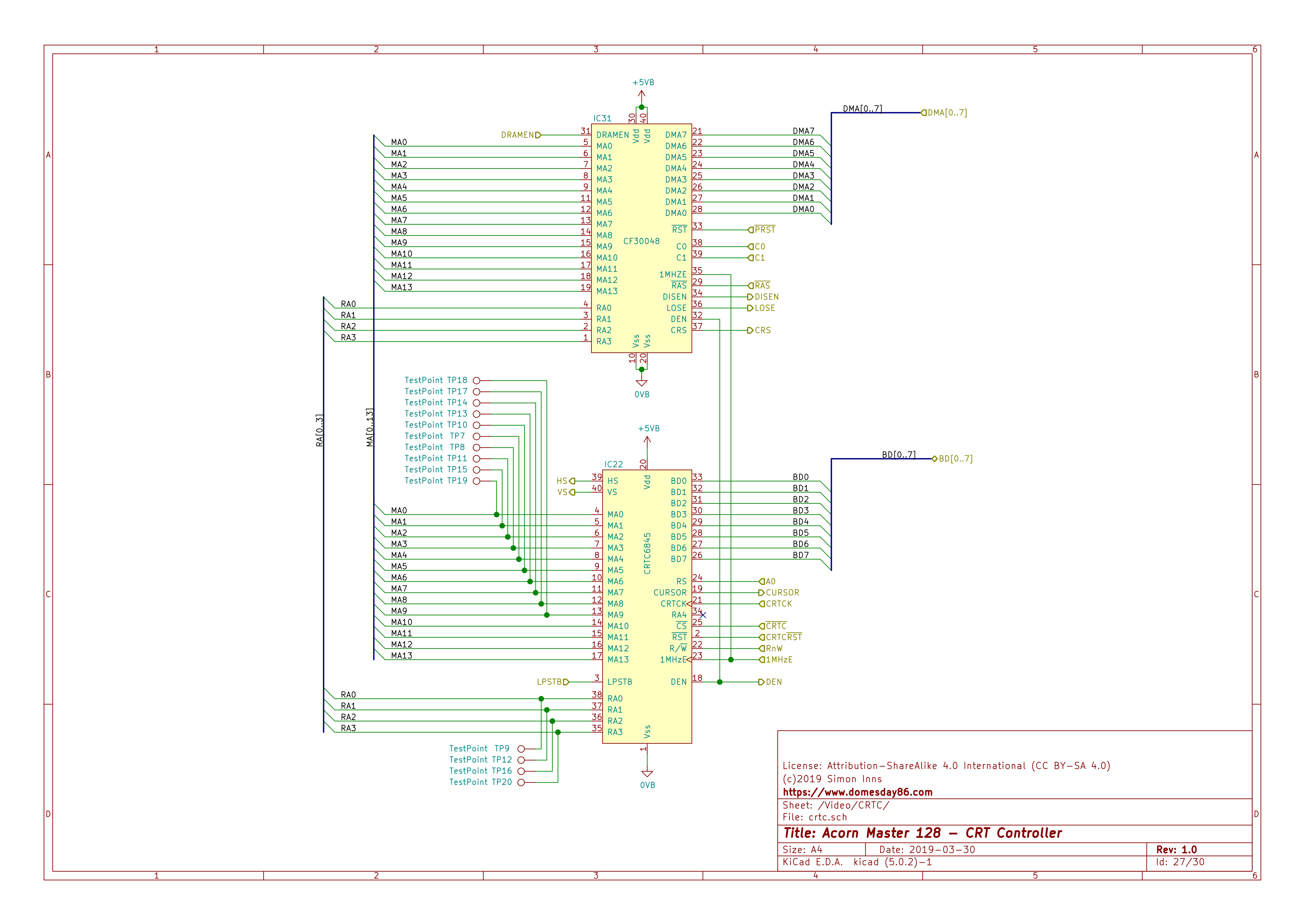


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Sheet: /Video/Digital Video Stage/
File: digitalvideo.sch

Title: Acorn Master 128 - Digital Video Stage

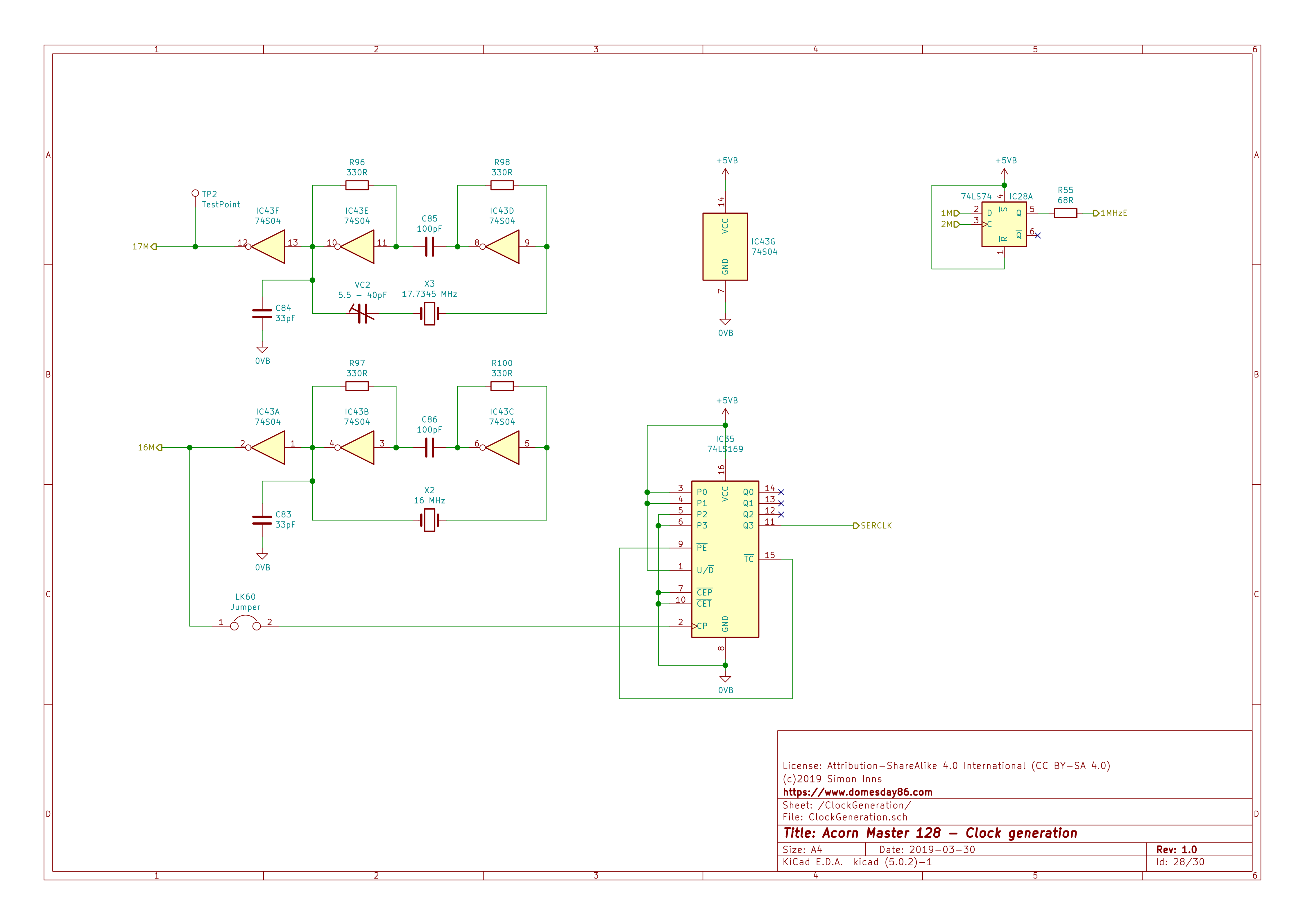
Size: A4	Date: 2019-03-30	**Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1		Id: 26/30

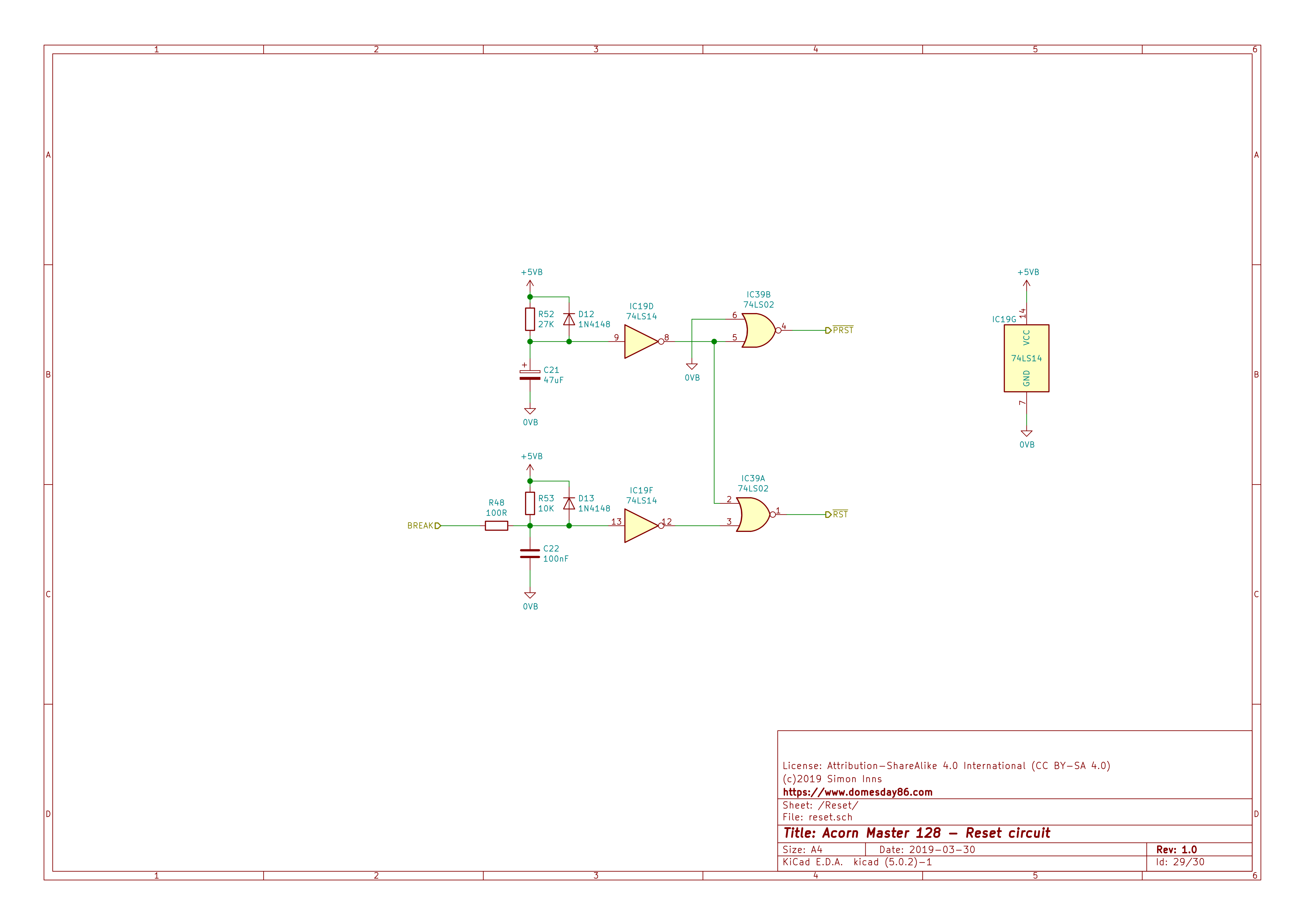


https://www.domesday86.com
Sheet: /Video/CRTC/
File: crtc.sch

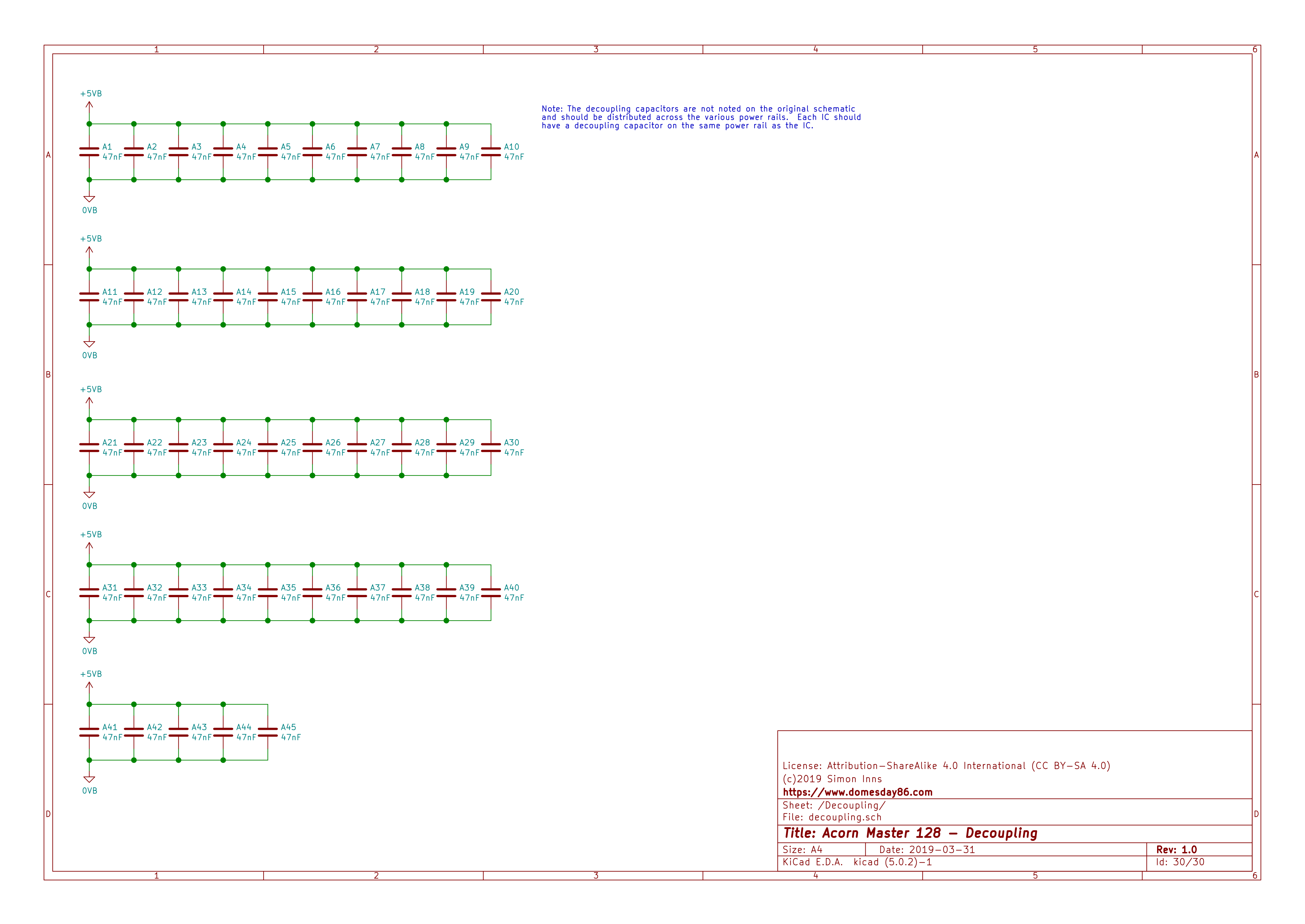
Title: Acorn Master 128 - CRT Controller

Size: A4 | Date: 2019-03-30 | **Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1 | Id: 27/30


TP2
TestPoint
17M
IC43F
74S04
R96
330R
IC43E
74S04
C85
100pF
R98
330R
IC43D
74S04
C84
33pF
0VB
VC2
5.5 - 40pF
X3
17.7345 MHz
+5VB
IC43G
74S04
VCC
GND
0VB
+5VB
74LS74
IC28A
R55
68R
1M
2M
1MHzE
16M
IC43A
74S04
R97
330R
IC43B
74S04
C86
100pF
R100
330R
IC43C
74S04
C83
33pF
0VB
X2
16 MHz
+5VB
IC35
74LS169
P0
P1
P2
P3
Q0
Q1
Q2
Q3
SERCLK
PE
TC
U/D
CEP
CET
CP
GND
0VB
LK60
Jumper
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https://www.domesday86.com
Sheet: /ClockGeneration/
File: ClockGeneration.sch
Title: Acorn Master 128 - Clock generation
Size: A4
Date: 2019-03-30
Rev: 1.0
KiCad E.D.A. kicad (5.0.2)-1
Id: 28/30



https://www.domesday86.com
Sheet: /Reset/
File: reset.sch
Title: Acorn Master 128 – Reset circuit
Size: A4 | Date: 2019-03-30 | **Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)-1 | Id: 29/30



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Sheet: /Decoupling/
File: decoupling.sch

Title: Acorn Master 128 − Decoupling

Size: A4 Date: 2019−03−31 **Rev: 1.0**
KiCad E.D.A. kicad (5.0.2)−1 Id: 30/30